



GENERAL ANATOMY OF THE FEMALE REPRODUCTIVE SYSTEM



XXX тысячелетие до н.э.

IV–III тысячелетия до н.э.

IV в. до н.э.

III в. до н.э.

II в. до н.э.

II–I вв. до н.э.



I в. до н.э.

IV–V вв.

ок. 1360

XIV в.

1470–1480

Марс и Венера,
дом Марса и Венеры
в Помпеях, фреска
Неаполь, Нацио-
нальный археологи-
ческий музей

Архитектурный
фрагмент с Венерой,
выходящей из моря
Каир, Коптский музей

Венера
и шесть легендарных
воздыхателей,
флорентийское блюдо,
фрагмент
Париж, Лувр

Видение
великой блудницы
(Апокалипсис, 17),
шпалера Апокалипсиса
Анжер,
замок короля Рене

Неизвестный
нижнерейнский
художник,
Магия любви
Лейпциг, Музей изоб-
разительных искусств

The notion of feminine beauty is constantly changing



ок. 1482

Сандро Боттичелли,
Рождение Венеры
Флоренция,
Галерея Уффици



1506

Лукас Кранах,
*Венера и Амур
с сотами*
Рим, Галерея
Боргезе



1509

Джорджоне,
Спящая Венера
Дрезден,
Картинная галерея



1538

Тициан,
Венера Урбинская
Флоренция,
Галерея Уффици



1545

Аньоло Бронзино,
*Аллегория
с Венерой и Амуром*
Лондон, Националь-
ная галерея



1630

Петер Пауль Рубенс,
*Портрет Елены
Фоурмен (Шубка)*
Вена, Музей
истории искусства



1650

Диего Веласкес,
Венера перед зеркалом
Лондон,
Национальная галерея



Naked Maja, 1797-1800 by Francisco Goya



Antonio Canova
Paolina Borghese (1805-1808)
Gallery Borghese, Rome



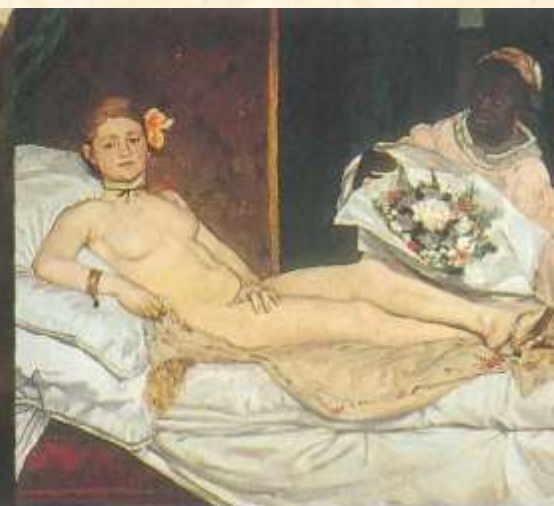
1814

Жан-Огюст-Доминик Энгр,
Большая одалиска
Париж, Лувр



1833

Франческо Хайец,
Кающаяся Мария Магдалина
Милан, Городская галерея
современного искусства



1863

Эдуард Мане,
Олимпия
Париж, Орсе



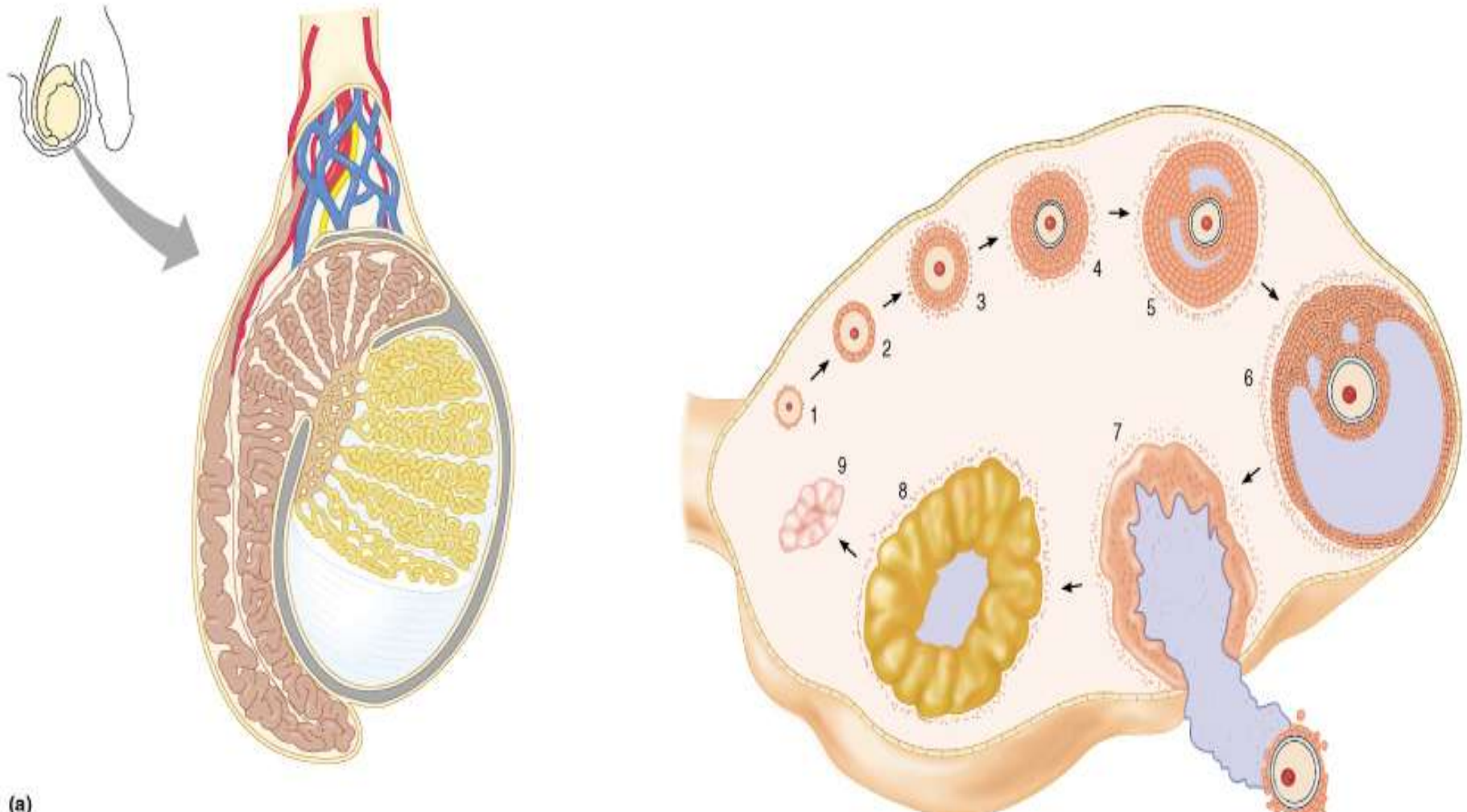




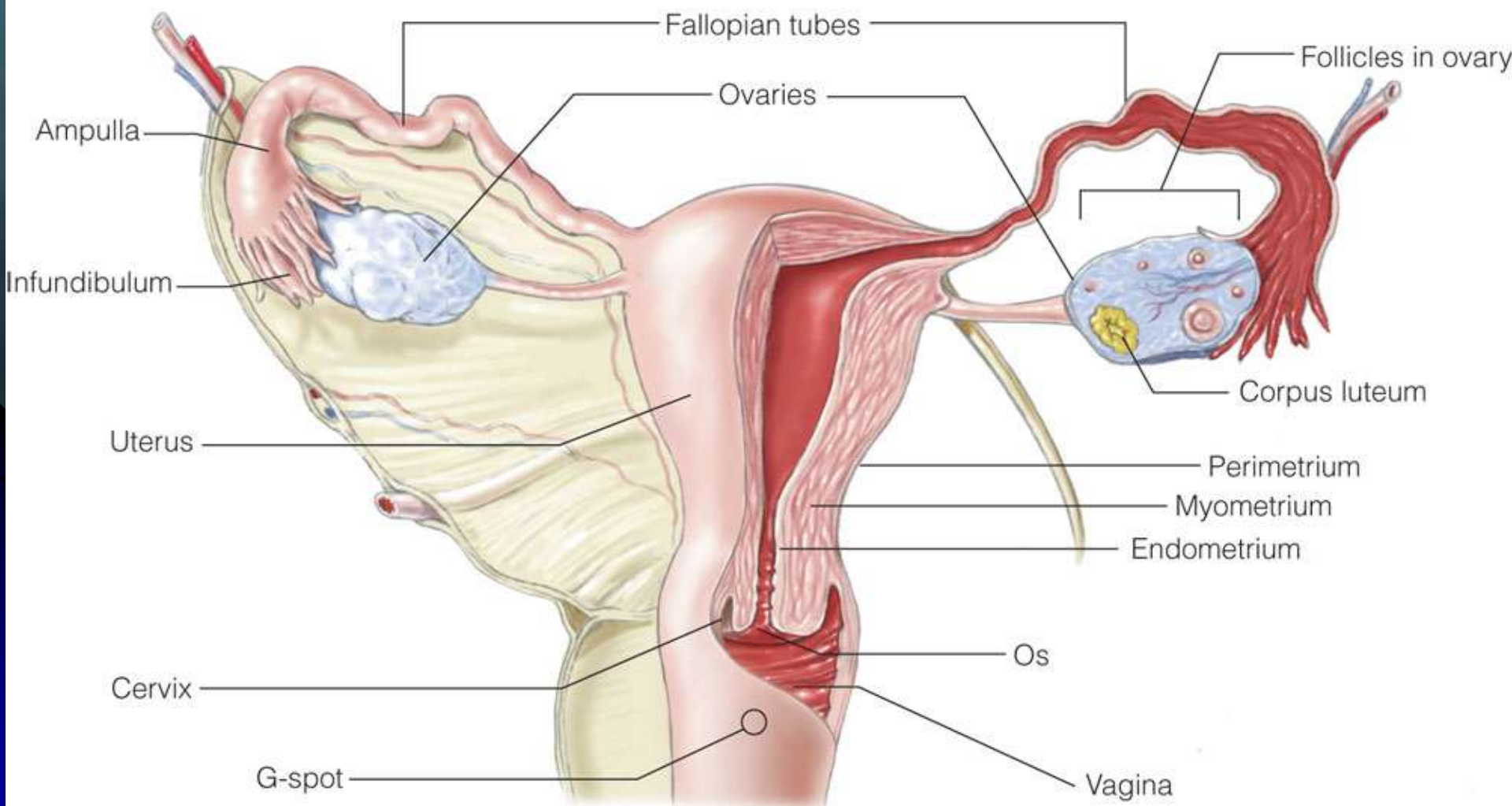
MAY BE AND IS

**THE FEMALE REPRODUCTIVE SYSTEM
INCLUDES THE PRIMARY ORGANS
NECESSARY FOR REPRODUCTION -
OVARIES AND THE TESTES, BUT THERE
ARE ACCESSORY ORGANS AS WELL.**

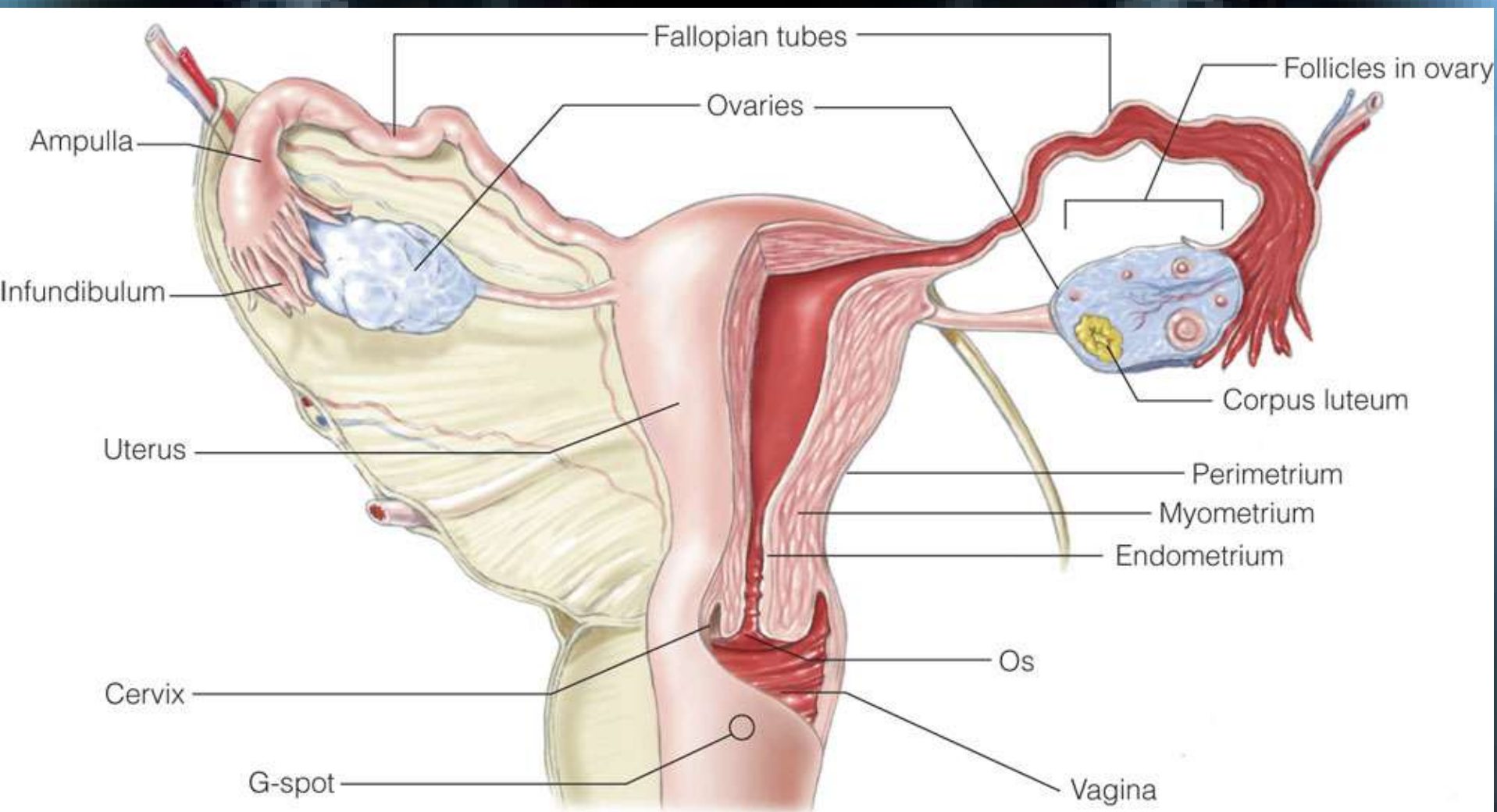
- The reproductive system becomes active after puberty period.
- During puberty the reproductive organs mature to create a fertile individual capable of reproducing. The primary sex organs produce the sex cells (egg/sperm) and sex hormones.



THE ACCESSORY SEX ORGANS ARE INVOLVED IN MAINTAINING OF THE SEX CELLS AND ASSISTING IN THE PROCESS OF FERTILIZATION.



The female internal reproductive system (front view).



© 2007 Thomson Higher Education

The female internal reproductive system (front view).

**WOMEN HAVE THE UTERUS, OVIDUCT, BREASTS, AND VAGINA.
MEN HAVE THE PENIS AND SCROTUM AS ACCESSORY ORGANS.**

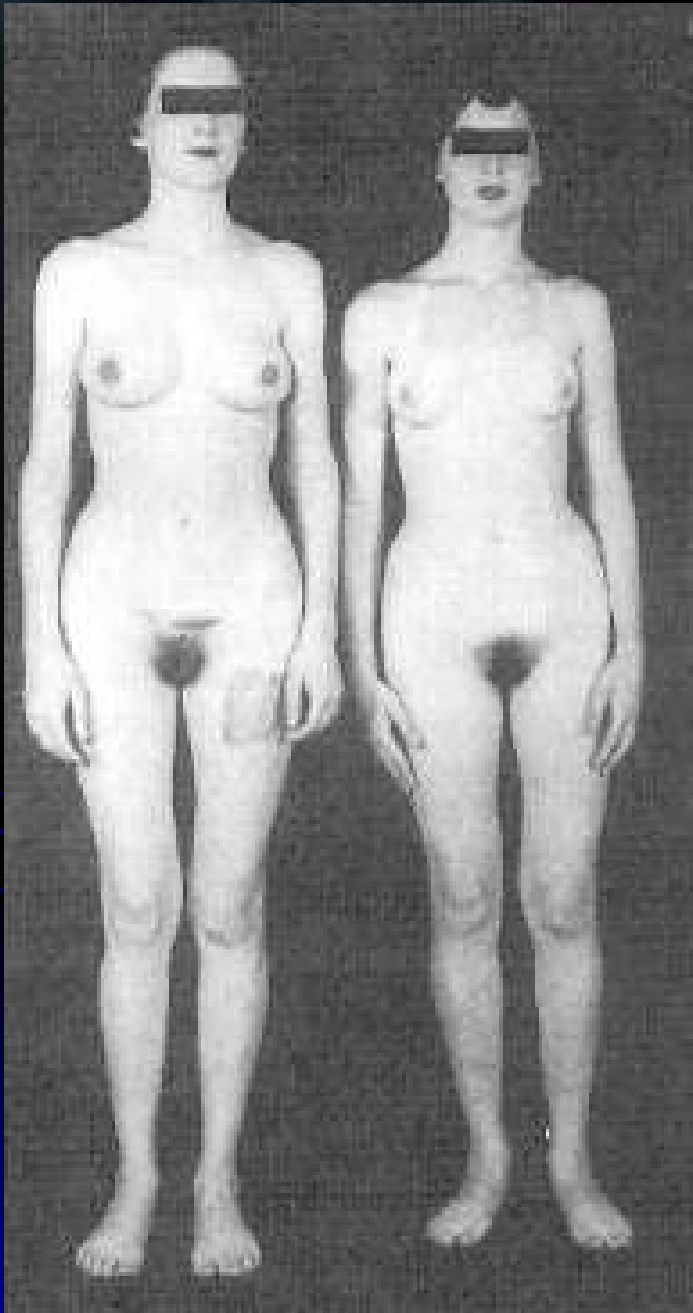


XX



XY

**HUMAN KARYOTYPE
(46, XX - WOMAN, 46, XY - MEN)**



XY

testes

normal testosterone

no receptor

**insensitive to
testosterone**



HERMAPHRODITE

The Reproductive System

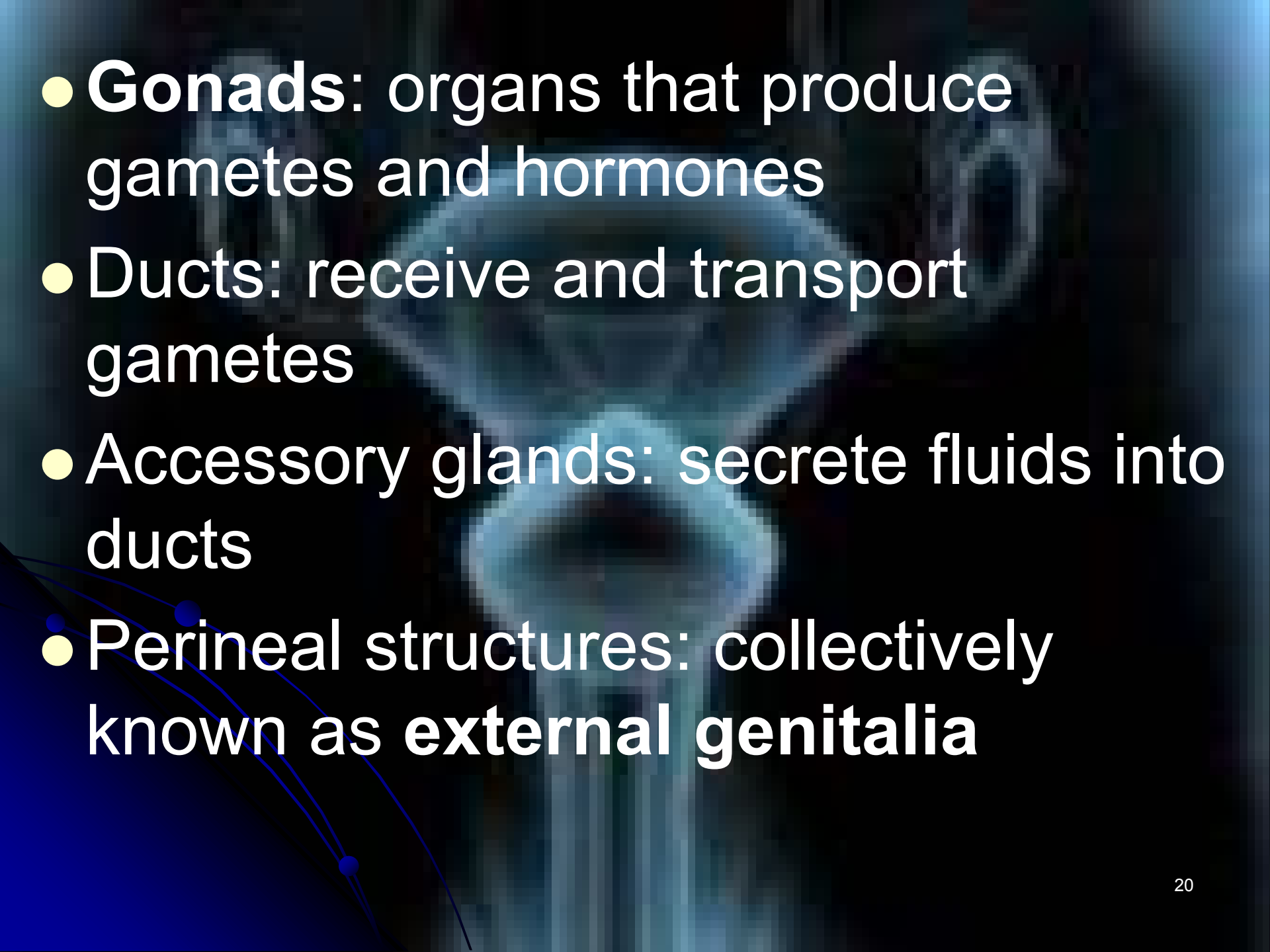


Function Preview

- Ensures continuity of the species by producing offspring
- In sexual reproduction new individuals are produced by the fusion of haploid gametes to form a diploid zygote.
- Sperm is male gamete, ova (ovum singular) - female gamete.

There are some similarities and differences between males and females organs, but even so they have a common goal: a new life

- Primary genital organs: **gonads**
 - **Testes** in males
 - **Ovaries** in females
 - These produce the **gametes** (sex cells)
 - **Sperm** in males
 - **Ovum** (egg) in females
 - Endocrine function also: secretion of hormones
- Accessory sex organs
 - Internal glands and ducts
 - External genitalia

- 
- **Gonads:** organs that produce gametes and hormones
 - **Ducts:** receive and transport gametes
 - **Accessory glands:** secrete fluids into ducts
 - **Perineal structures:** collectively known as **external genitalia**

Stages of Life

- Embryologically, males and females start out “sexually indifferent”
 - Gonads, ducts and externally identical structures
 - At 5 weeks of gestation changes start to take place
- Puberty: reproductive organs grow up into adult size and reproduction becomes possible
 - Between 10 and 15 years of old
 - Influence of rising levels of gonad hormones
 - Testosterone in males
 - Estrogen in females
- Female menopause (between 46 and 54):
 - Loss of ovulation and fertility



DEVELOPMENT OF GENITAL ORGANS

2 RESPECT FOR DEVELOPMENT:

I – PREFORMATION

(PREFORMATIO – FORMATION ADVANCE)

- THE BASIC POSTULATE: NOT CREATED ANYTHING NEW

II – EPIGENESIS

THE BASIC POSTULATE “OMNE ANIMAL EX OVO”

ALL PROCEEDS OUT EGGS



JUPITER, PRODUCING LIVING BEINGS FROM THE EGG. FRONTISPIECE BOOKS HARVEY "ON THE ORIGIN OF ANIMALS" (1651R.).



**REHNER DE GRAAFF (1641-1678). _
WITH HIS OPERA OMNIA (1677P.).**

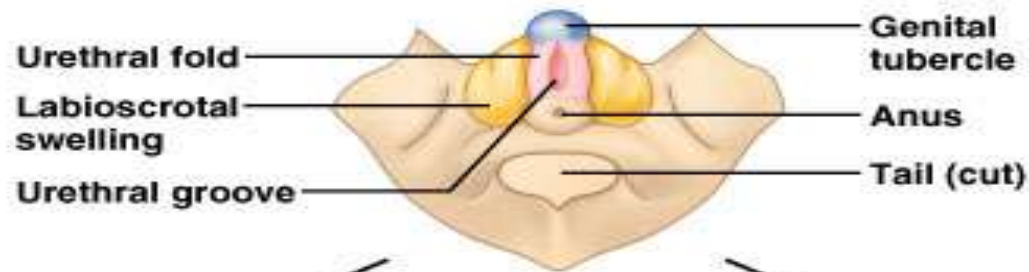




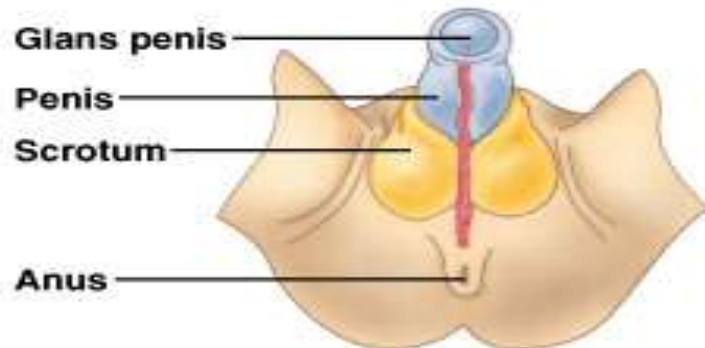
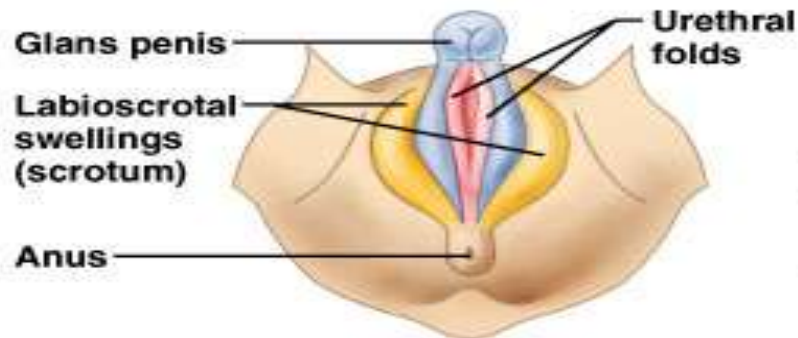
**HANS BALDUNG.
SEVEN WOMEN
AGES. 1544.
MUSEUM OF FINE
ARTS. LEIPZIG**

DIFFERENTIATION REPRODUCTIVE SYSTEM
- A COMPLEX PROCESS WHICH INVOLVES DIFFERENT MECHANISMS. IN THEIR IMPLEMENTATION ARE 2 IMPORTANT PRINCIPLES:

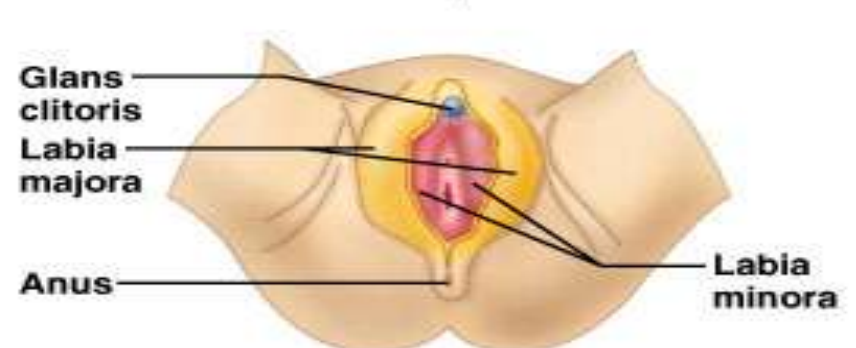
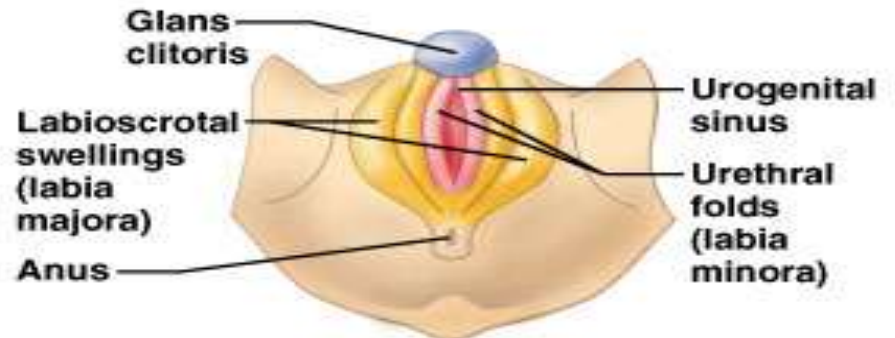
- 1) IN THE EARLY DEVELOPMENT - INDIFFERENT STAGE DURING WHICH THE STRUCTURE IS NOT INDENTIFICATE LIKE A MEN OR WOMEN;**
- 2) NO EFFECT OF ANDROGENS LEADS TO DIFFERENTIATION OF SEXES FEMALE TYPE.**



(a) Indifferent
Approximately 5 weeks



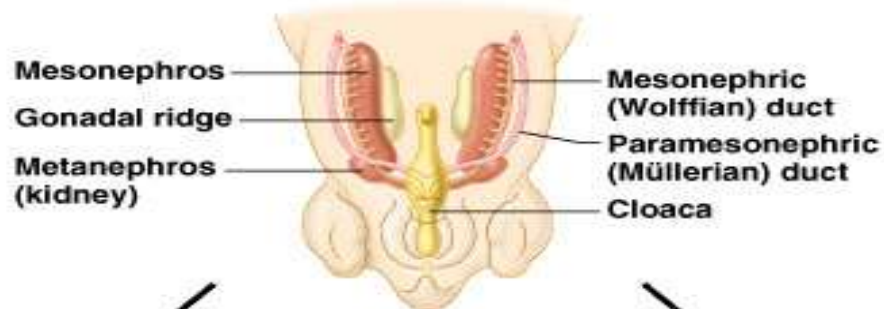
(b) Male development



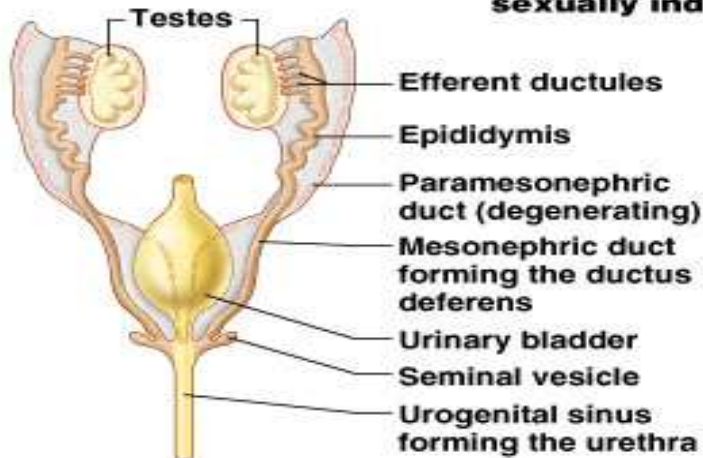
(c) Female development

DIFFERENTIATION MALE AND
FEMALE GENITALIA OCCURS AT
A LATER STAGE. GONADS,
GENITAL DUCTS AND EXTERNAL
GENITALIA ARE FORMED FROM
DIFFERENT, BUT RELATED
ELEMENTS.

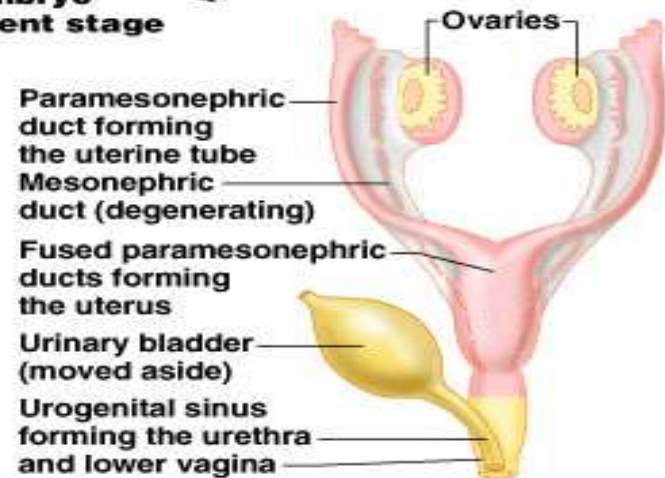
**IMPORTANT
PROCESSES IN
DEVELOPMENT OF
ORGANS ARE
DESCENT
GONADS.**



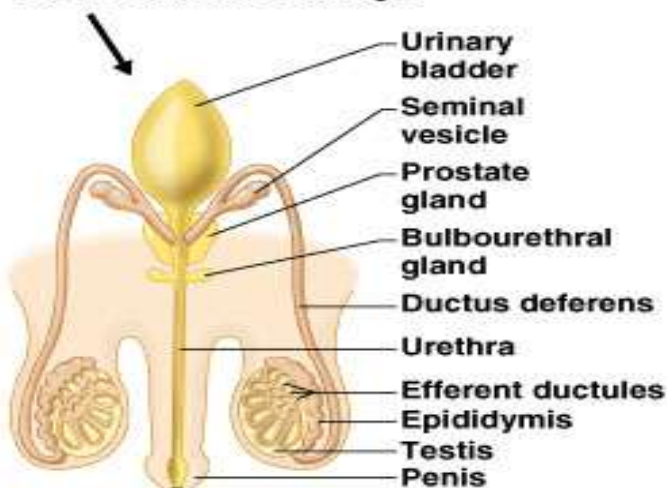
**5-6 week embryo
sexually indifferent stage**



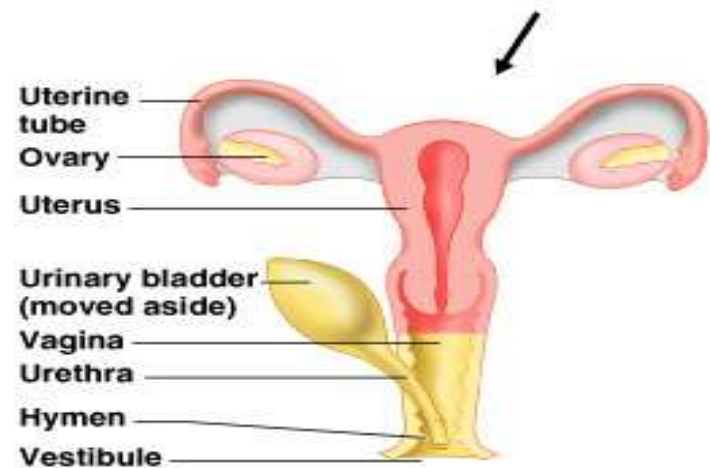
7-8 week male embryo



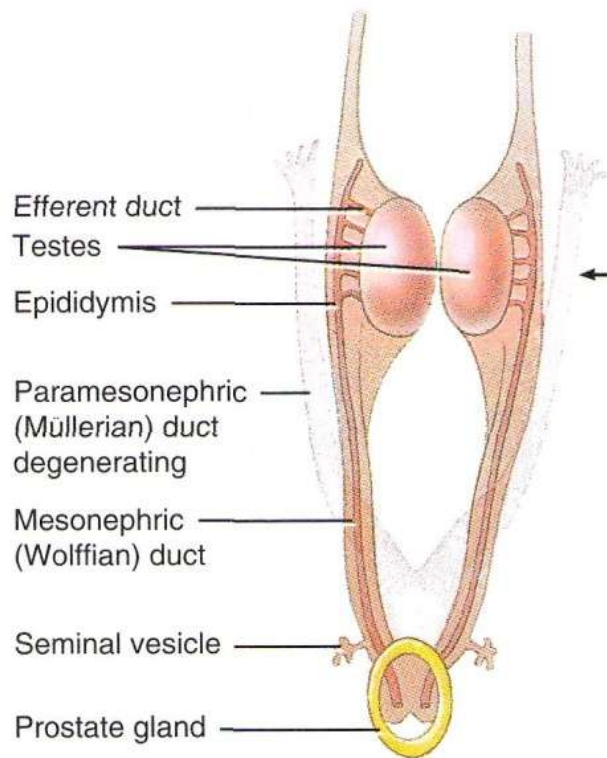
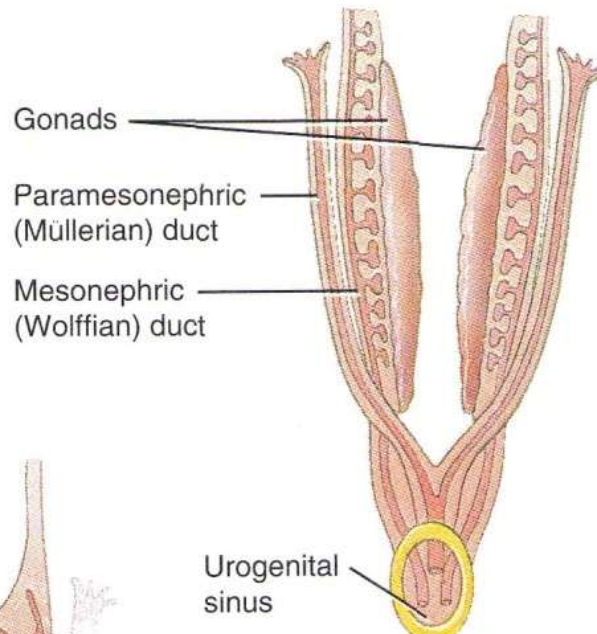
8-9 week female fetus



**At birth
male development**

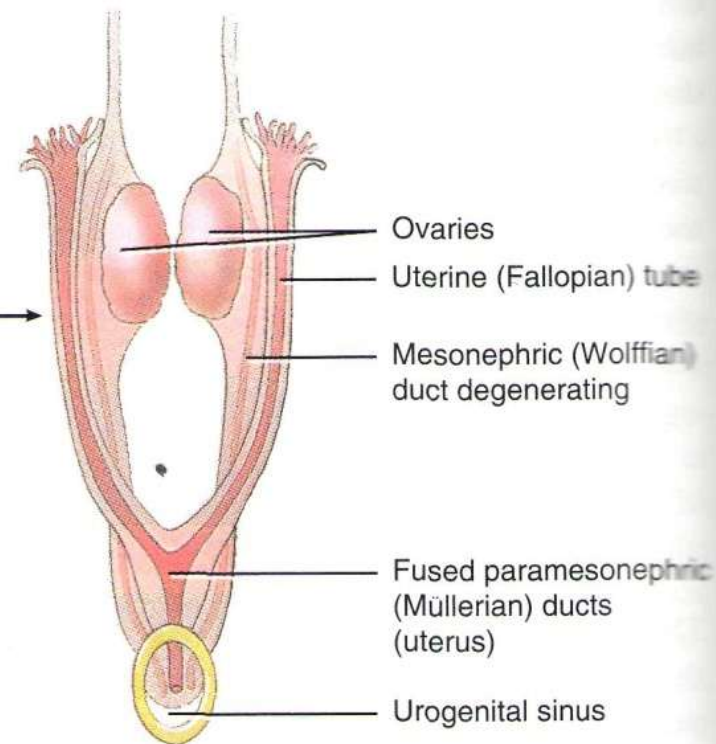


**At birth
female development**

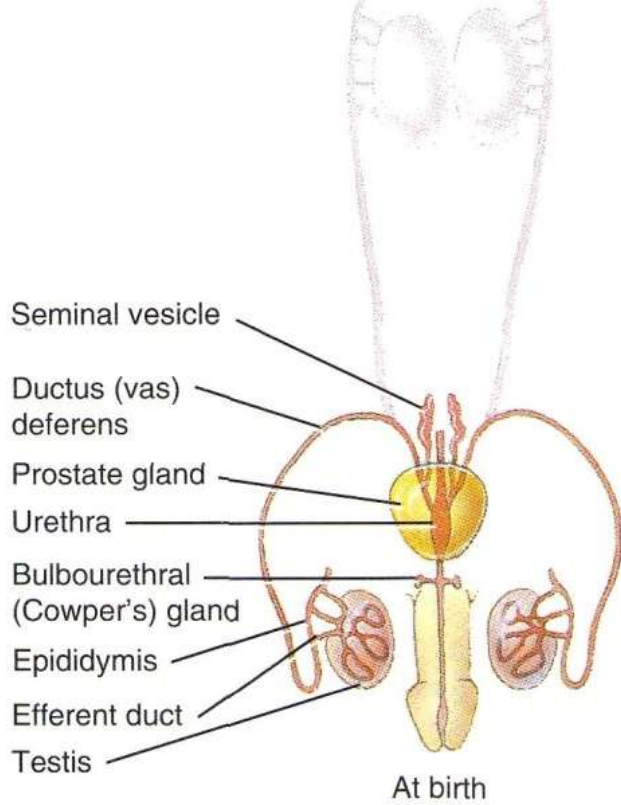


Seven- to eight-week embryo

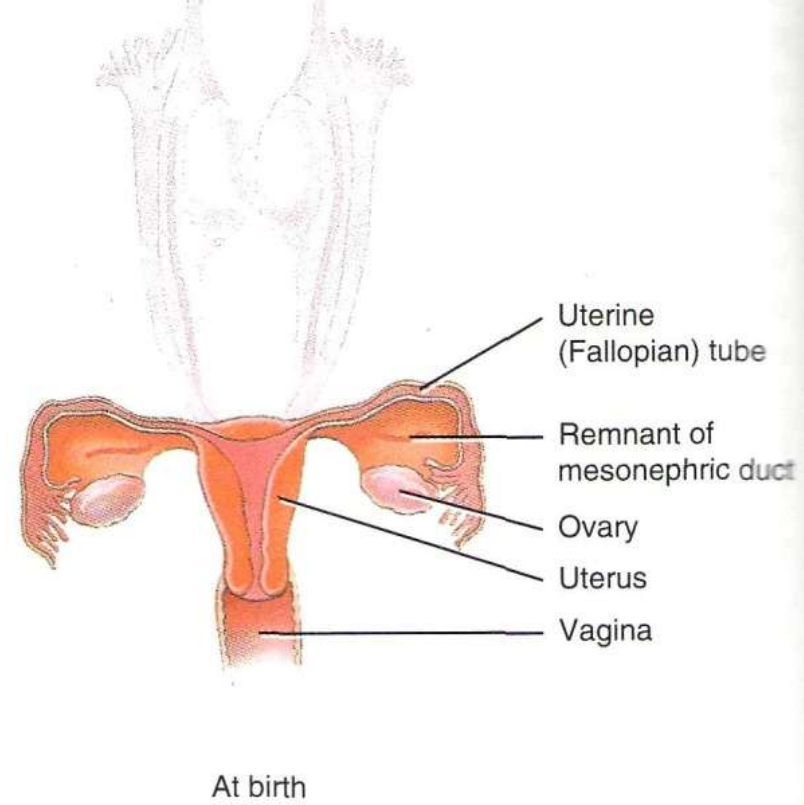
Undifferentiated stage
(five- to six-week embryo)



Eight- to nine-week embryo

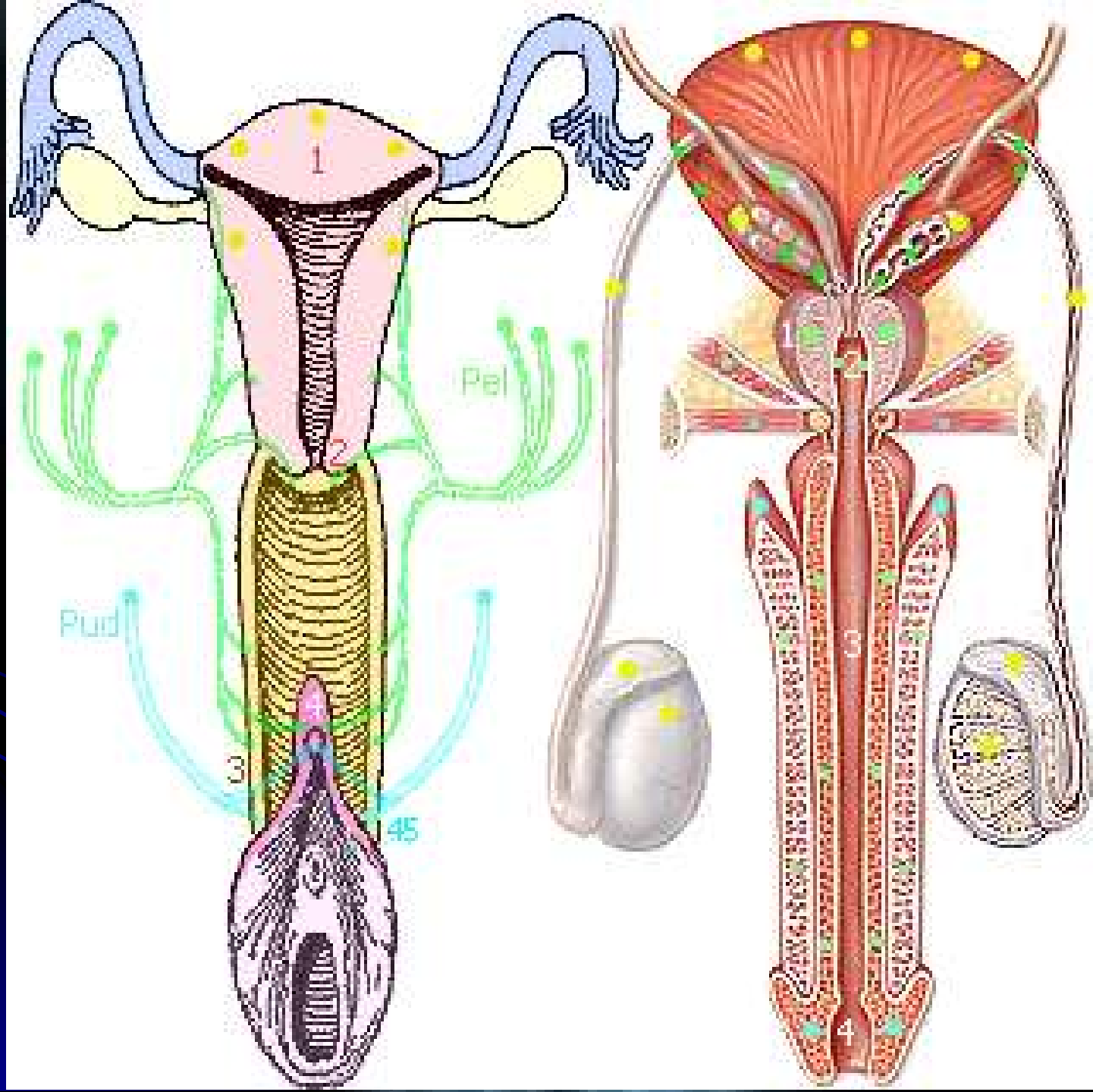


MALE DEVELOPMENT

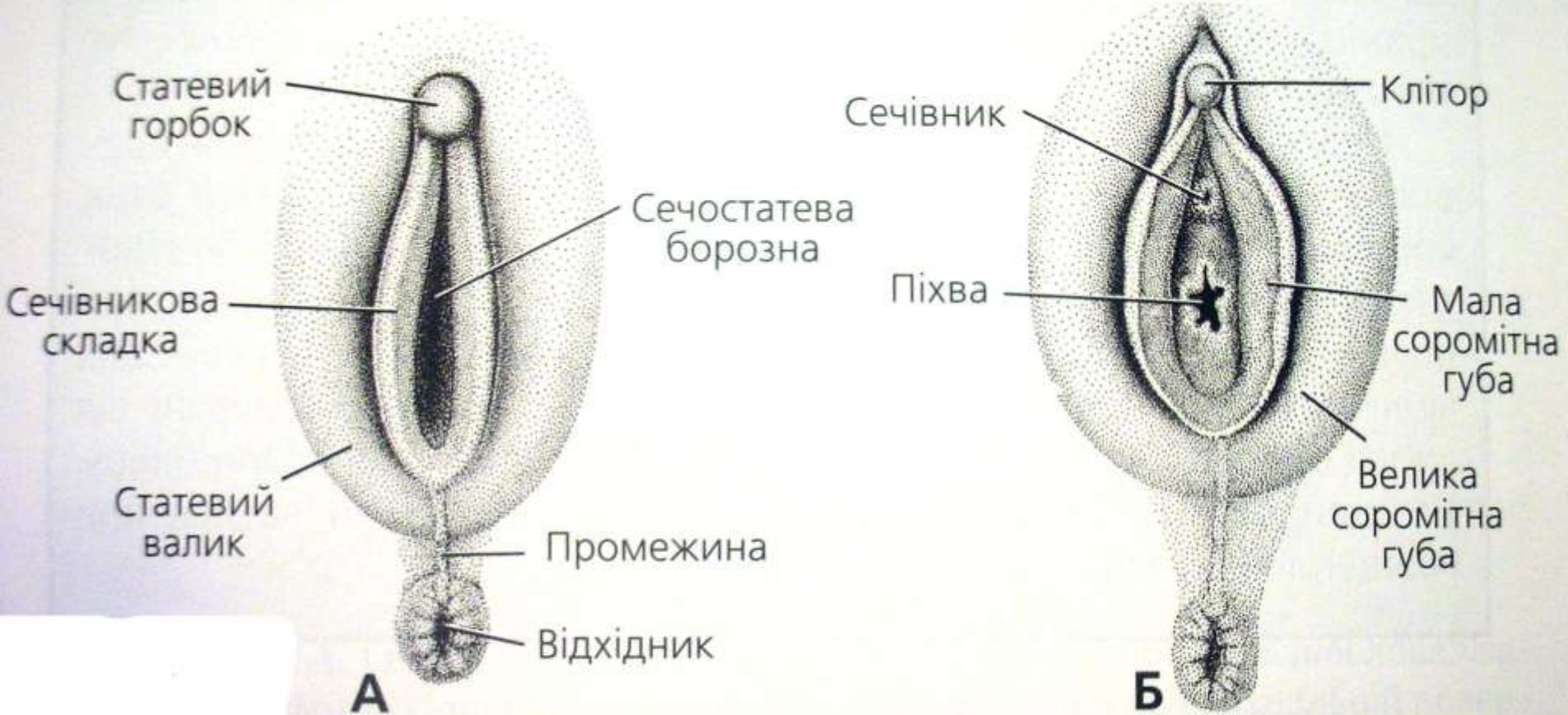


FEMALE DEVELOPMENT

**LEADING ROLE IN THE
DIFFERENTIATION OF THE
EXTERNAL GENITALIA PLAY
ANDROGENS; THEIR PRESENCE IS
NECESSARY FOR THE
DEVELOPMENT OF MALE
REPRODUCTIVE ORGANS.**



**IN THE ABSENCE OF
ANDROGENS FORMED
THE FEMALE TYPE.**



Розвиток зовнішніх статевих органів у жіночого плода на п'ятому місяці ембріогенезу (**A**) і в новонародженій дитини (**Б**).

The Female Reproductive System

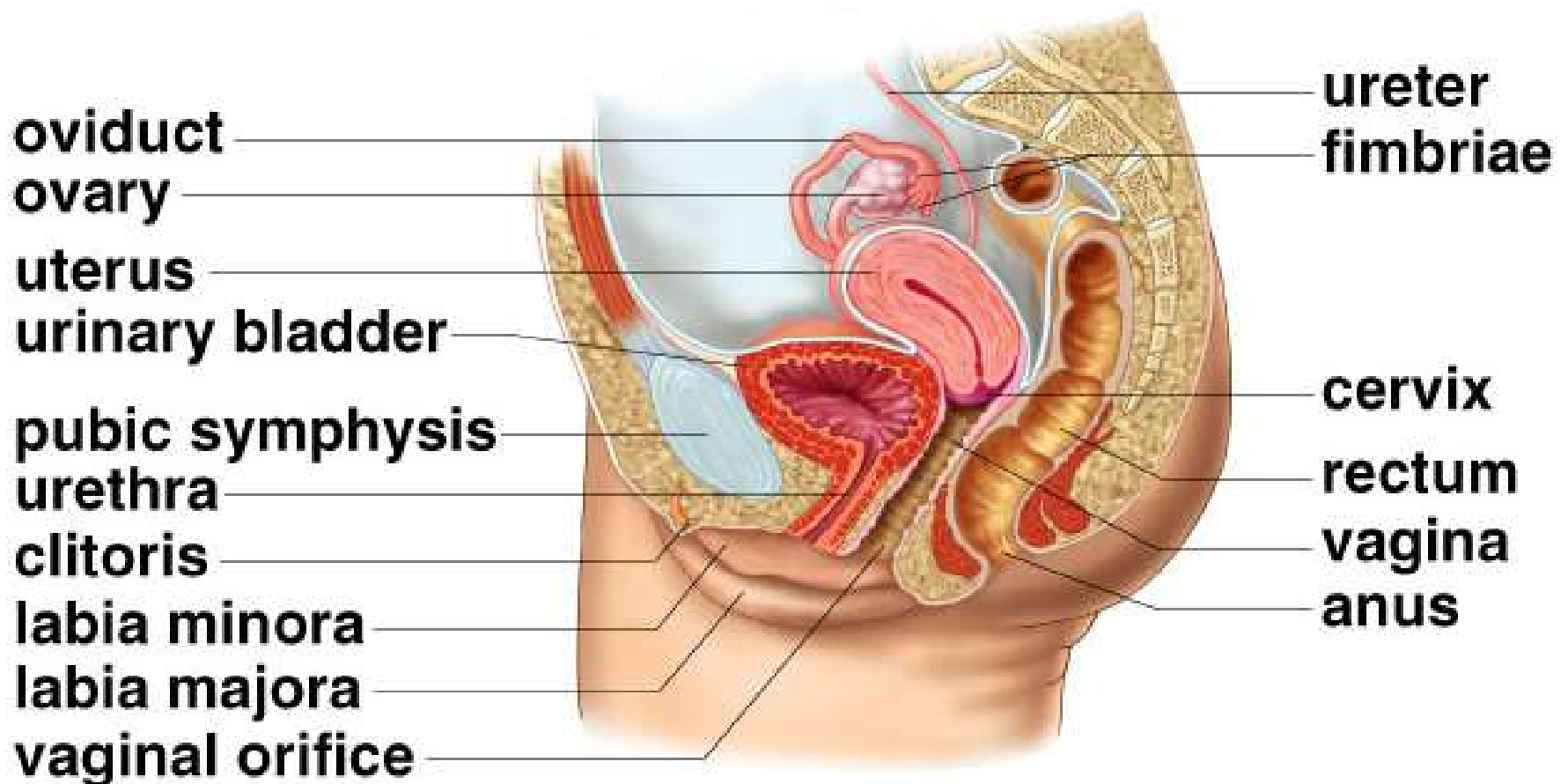
- Produces sex hormones and functional gametes
- Protects and supports developing of embryo
- Nourishes newborn infant

Structures of the Reproductive System

- The Female Reproductive System
 - **Ovaries** or female gonads:
 - Release one immature gamete (**oocyte**) per month
 - Produce hormones
 - Uterine tubes:
 - Carry oocytes to uterus:
 - if sperm reaches oocyte, fertilization is initiated and oocyte matures into **ovum**
 - Uterus:
 - Encloses and supports developing embryo
 - Vagina:
 - Connects uterus with exterior

Anatomy of Female Reproductive System

- ovaries: female gonads; produce eggs & hormones
- reproductive tract consists of “ducts” and glands



TOPOGRAPHIC CLASSIFICATION: INTERNAL AND EXTERNAL GENITALIA.

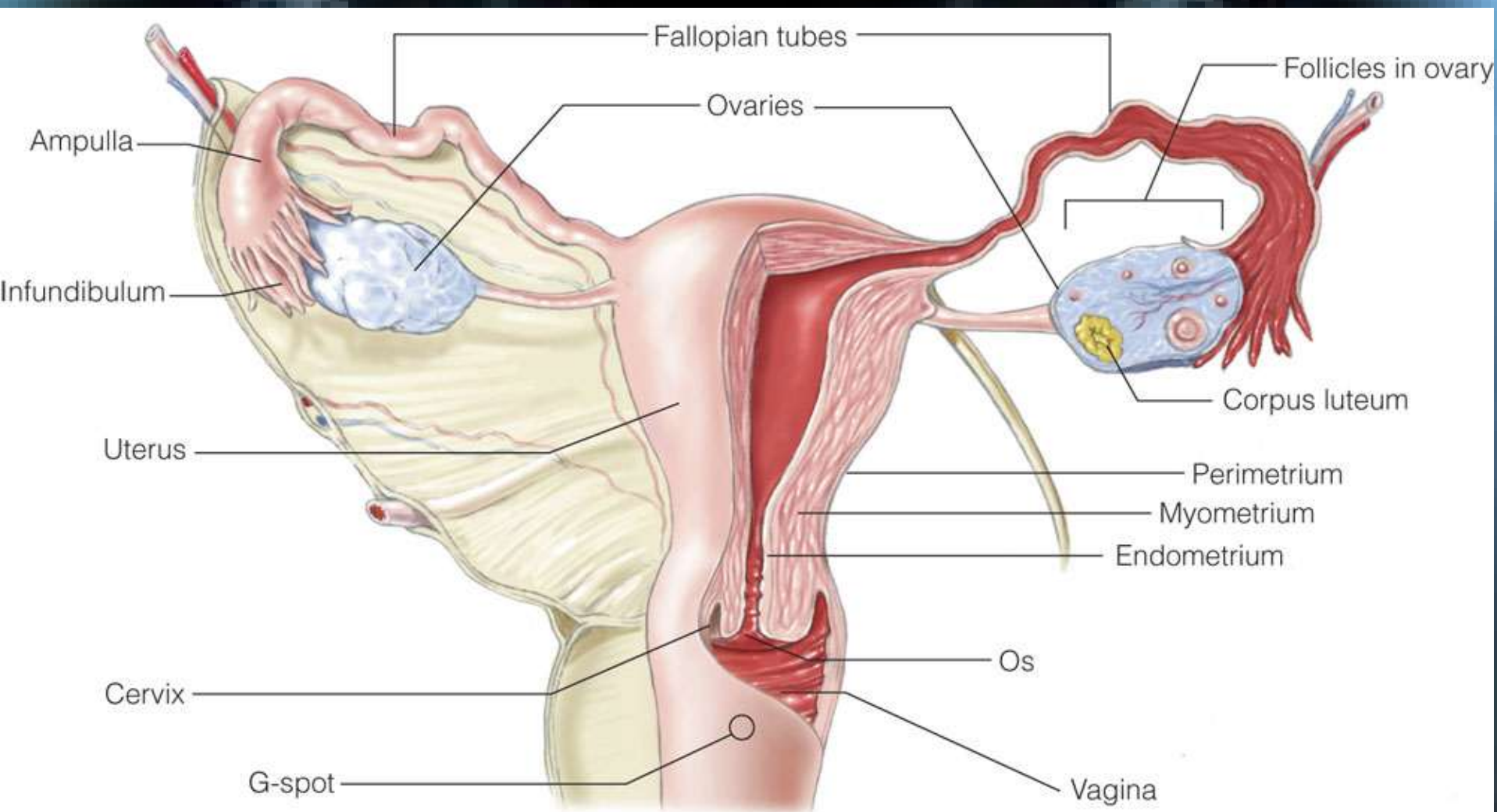
INTERNAL FEMALE GENITAL ORGANS ARE:

- OVARY,**
- UTERINE (FALLOPIAN) TUBES,**
- UTERUS,**
- VAGINA.**



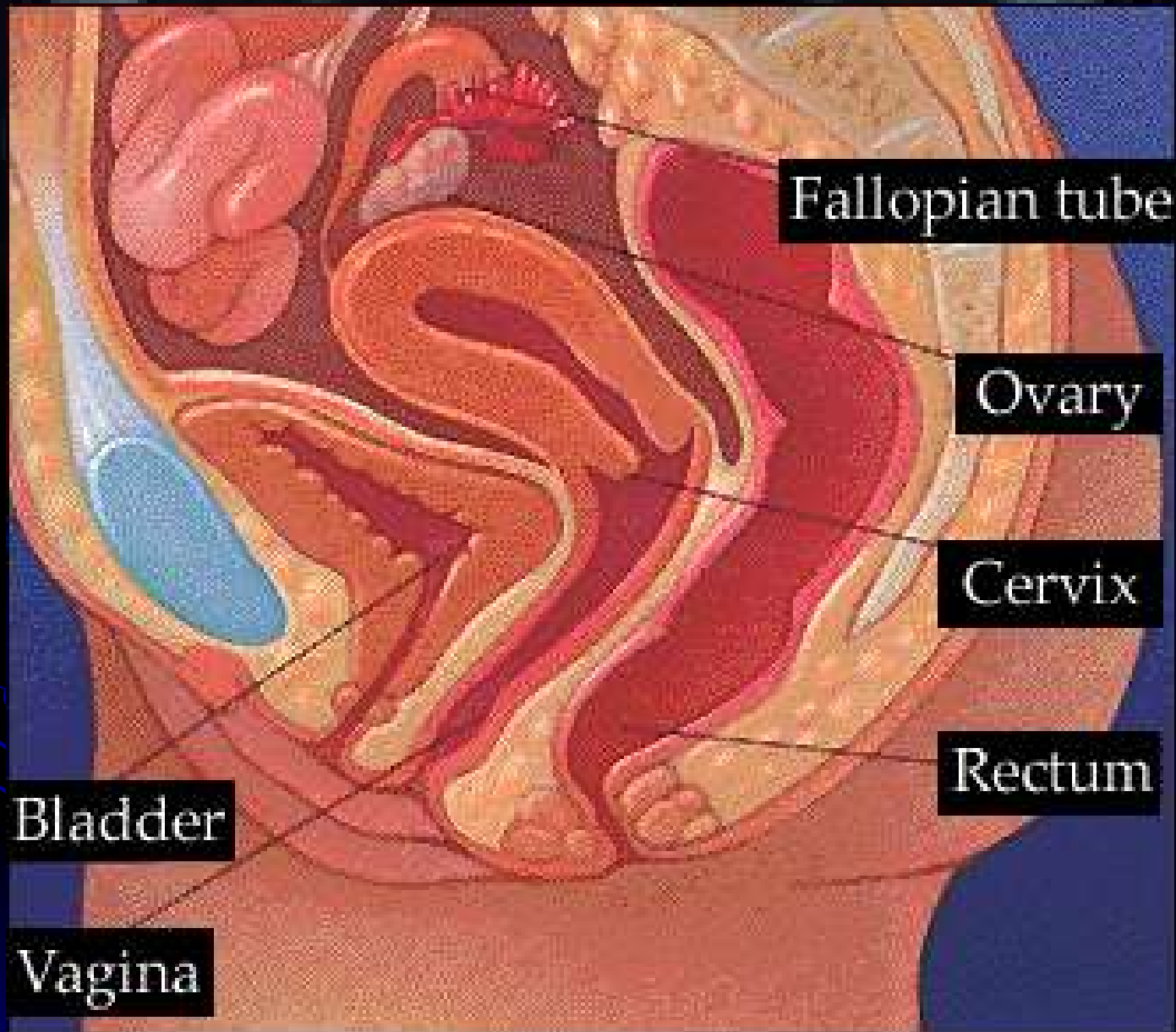
Division

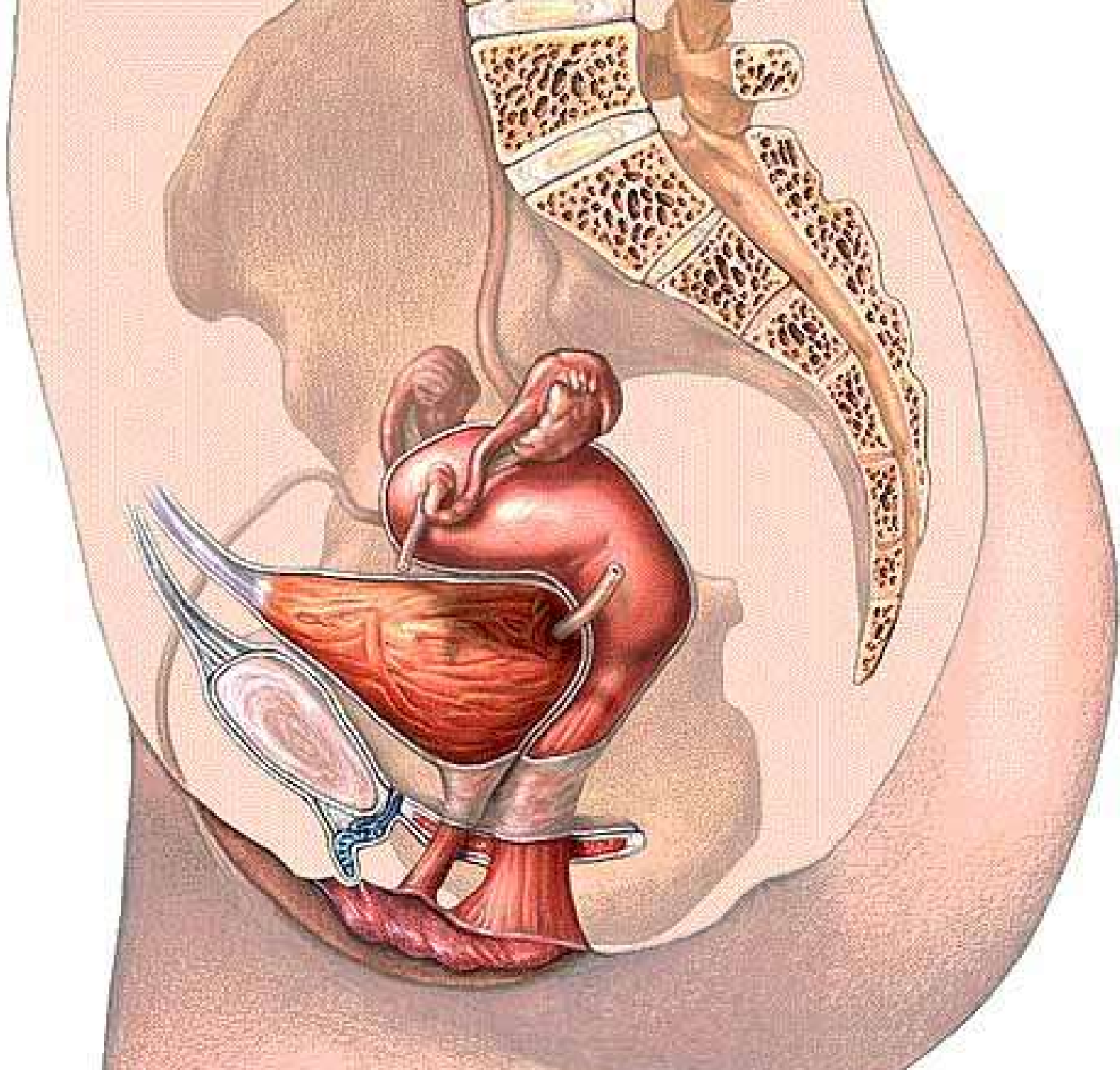
- GYNECOLOGY- study of female reproductive system (organs, hormones and diseases)
- OBSTETRICS - "obstetrix" = midwife, specialty concerning on pregnancy and parturition
- NEONATOLOGY - study and treatment of the newborn child



© 2007 Thomson Higher Education

The female internal reproductive system (front view).





FEMALE REPRODUCTIVE SYSTEM (SYSTEMA GENITALE FEMININUM)

**INTERNAL FEMALE GENITAL ORGANS
(ORGANA GENITALIA FEMININA INTERNA)**

OVARY(OVARIUM)

**UTERINE TUBE
(TUBA UTERINA)**

UTERUS (UTERUS)

VAGINA (VAGINA)

**THE EXTERNAL FEMALE GENITAL ORGANS
(ORGANA GENITALIA FEMININA EXTERNA)**

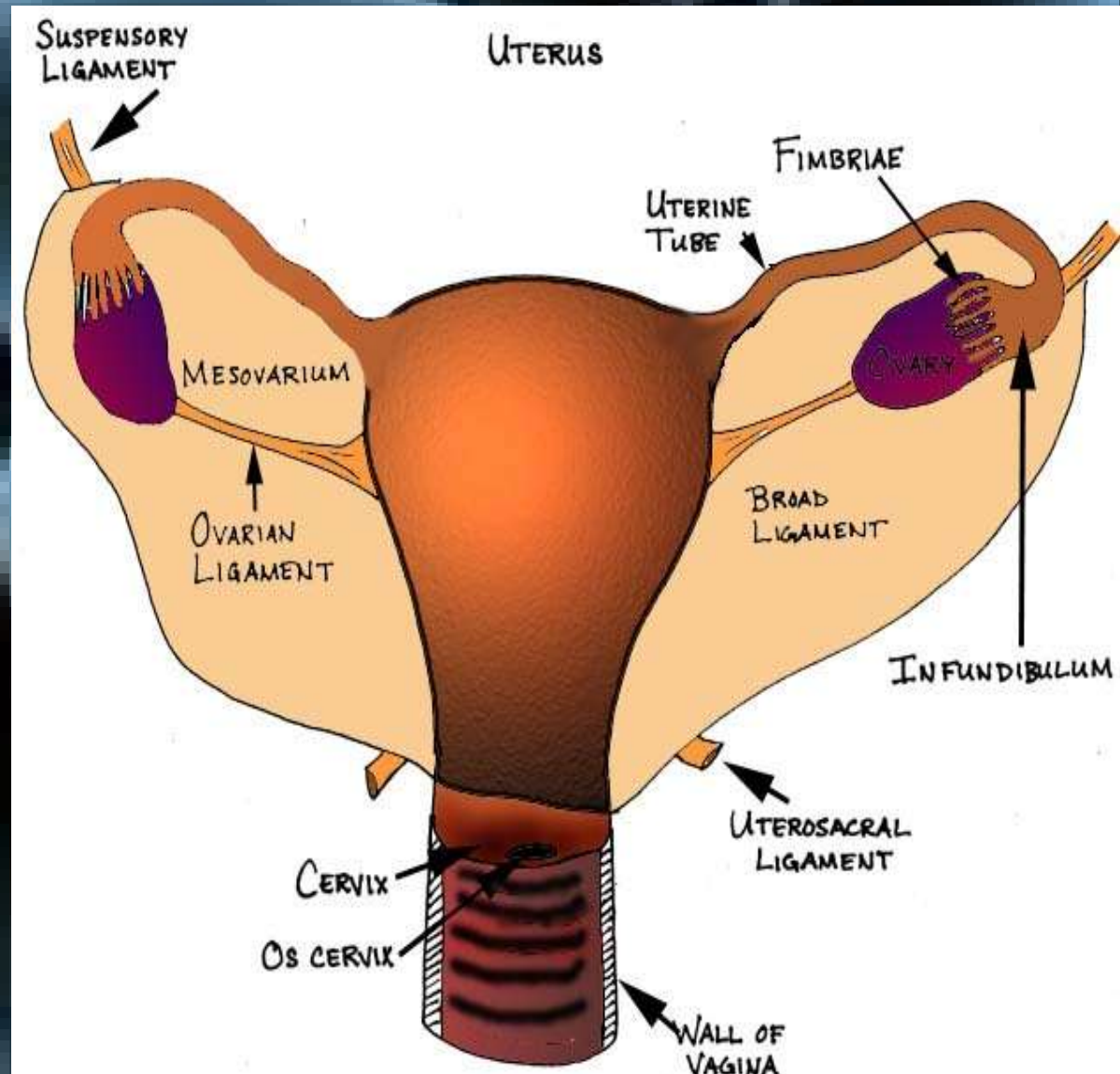
**WOMEN PUDENDAL
AREA (PUDENDUS
FEMININUM
VULVA)**

CLITORIS

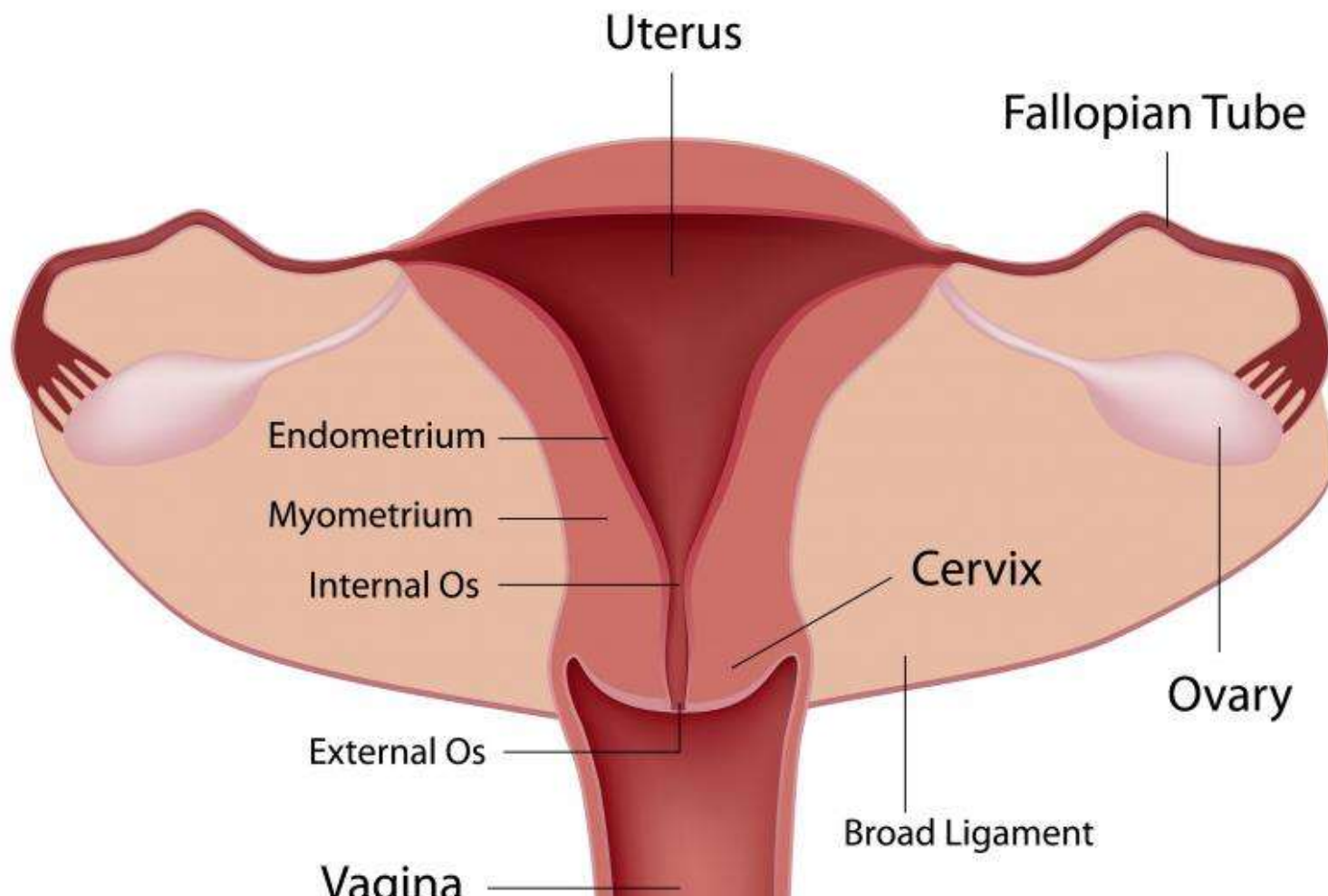
**FEMALE URETHRA
(URETHRA
FEMININA)**

FRS: INTERNAL STRUCTURES

Ovaries
Fallopian tubes
Uterus
Cervix



Female Reproductive System



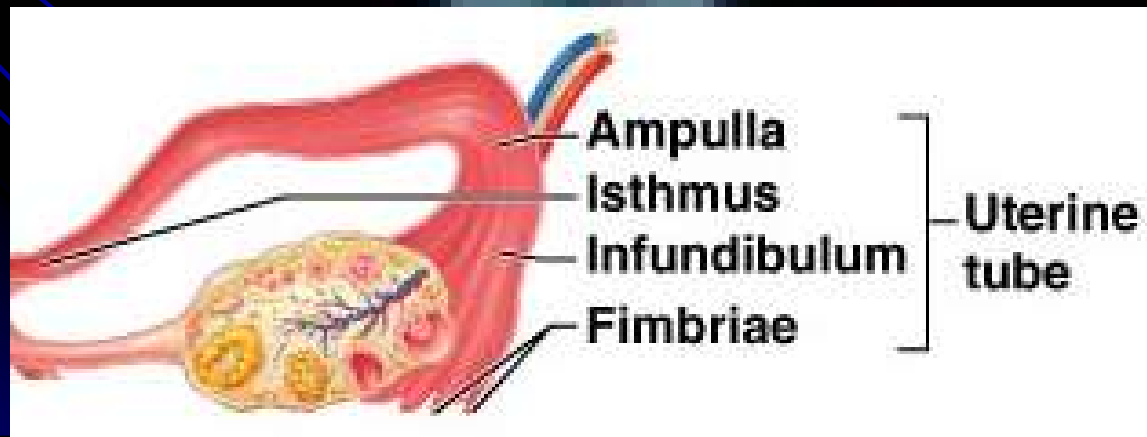
FEMALE REPRODUCTIVE SYSTEM

- Functions
 - produce ova
 - receive sperm
 - site of fertilization
 - hold & nourish embryo/fetus
 - bear infant
 - nurse infant



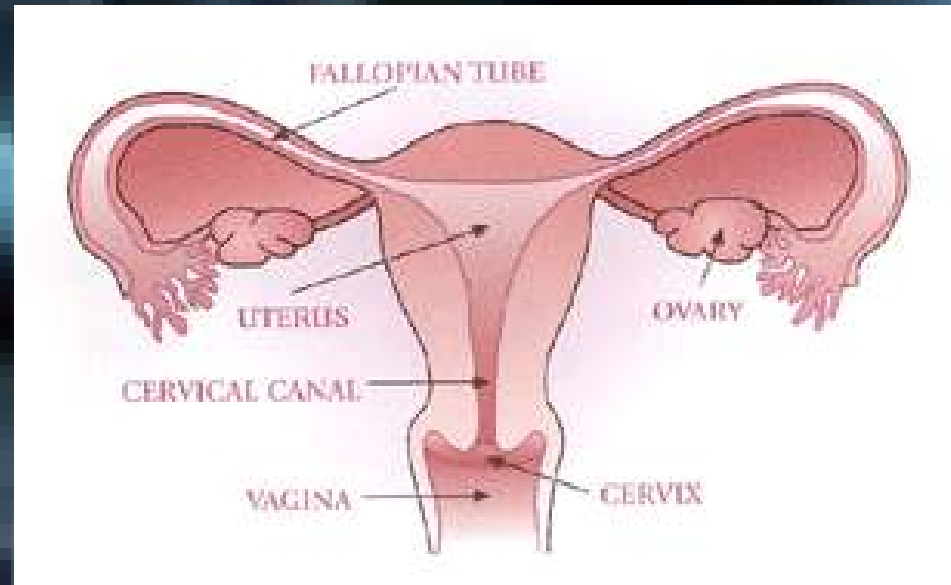
Female Reproductive System

- **Uterine (Fallopian) tubes**
 - Extend laterally to the uterus
 - Infundibulum = open, funnel-shaped end
 - Fimbriae = thin, finger-like ends of infundibulum



Fallopian Tubes

- Pair organ
- 5 inches in length
- Attached to the upper part of the uterus
- Function
 - Move the ovum from the ovary to the uterus
 - Cilia and peristalsis keep the ovum moving
 - Place of fertilization, connect the egg and sperm cells.

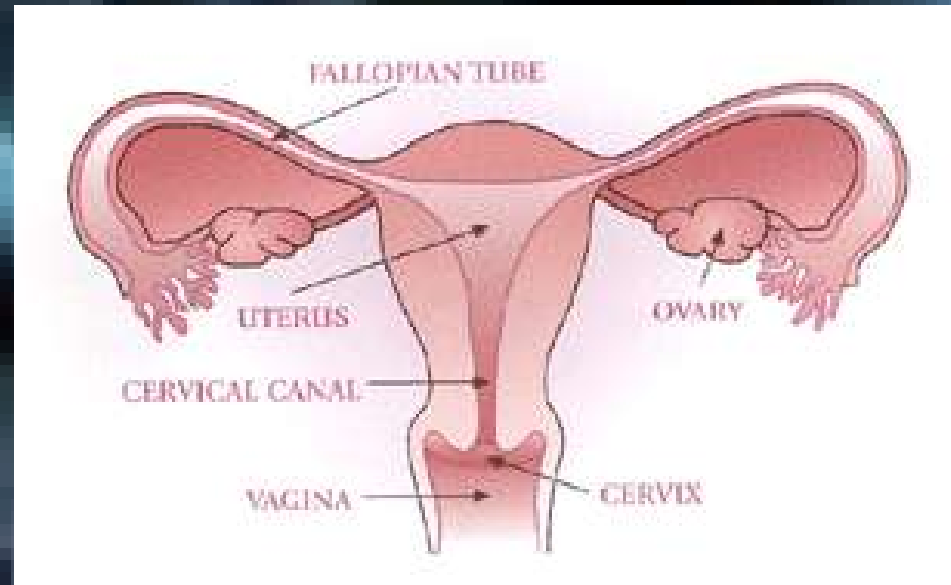


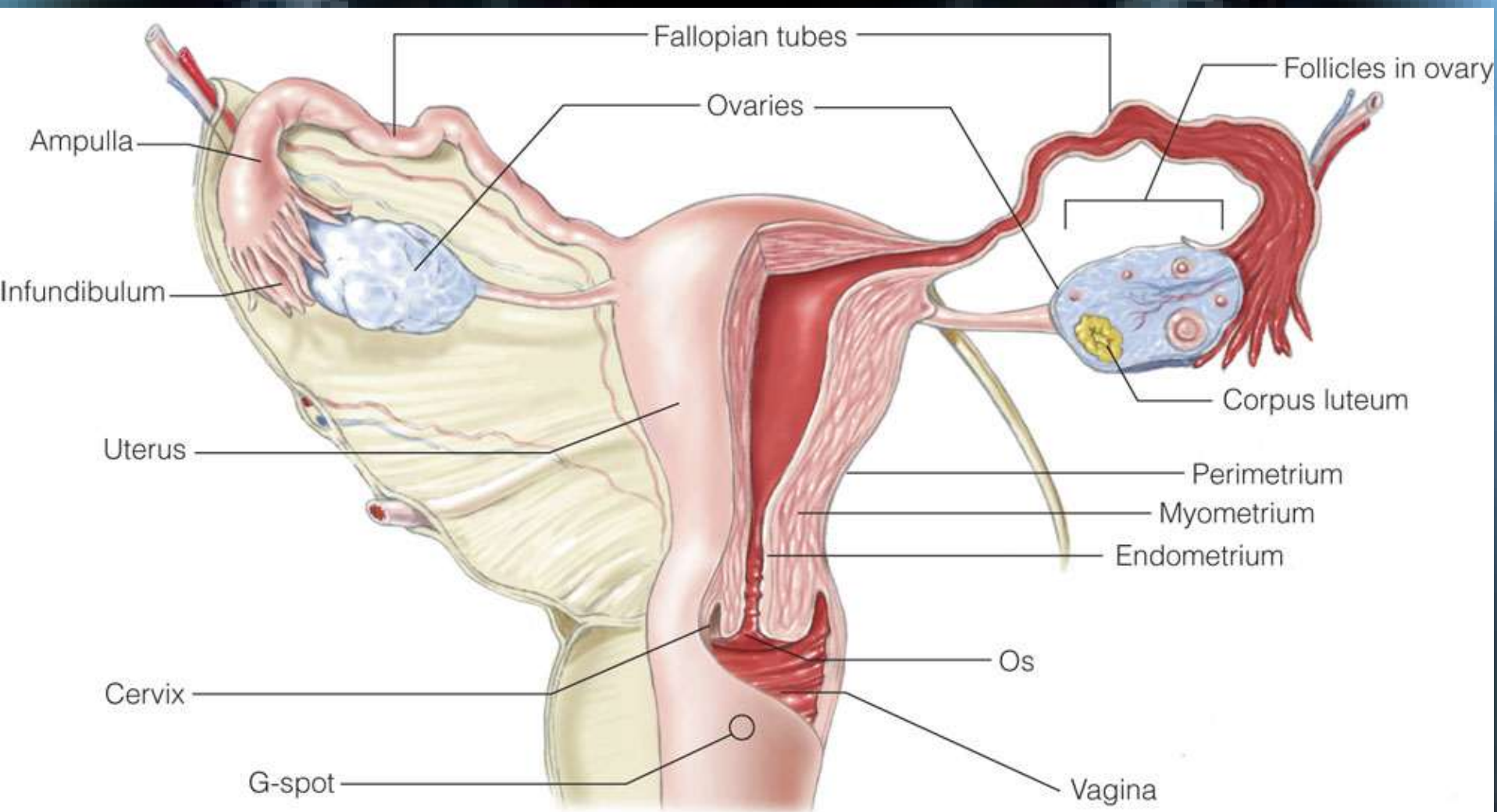
Female Reproductive System

- Uterine (Fallopian) tubes
 - Serosa = Peritoneum
 - Muscular
 - Mucosa
 - ciliated columnar epithelium
 - Action of cilia & muscular coat move ovum/embryo to uterus

Fallopian Tubes

- Pair organ
- 5 inches in length
- Attached to the upper part of the uterus
- Function
 - Move the ovum from the ovary to the uterus
 - Cilia and peristalsis keep the ovum moving
 - Site of fertilization, connect the egg and sperm cells





© 2007 Thomson Higher Education

The female internal reproductive system (front view).

Female Reproductive System

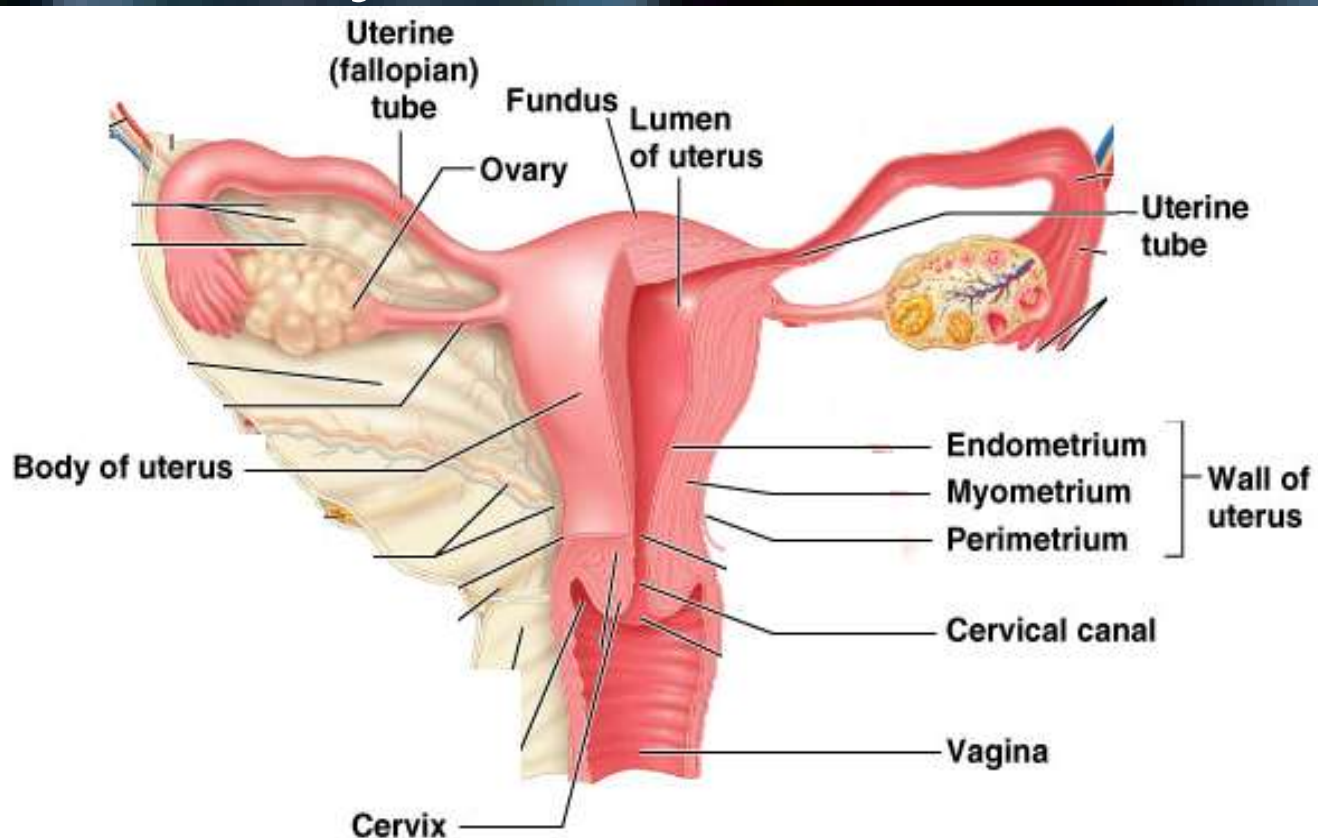
- Uterus

- Lies over urinary bladder

- Fundus

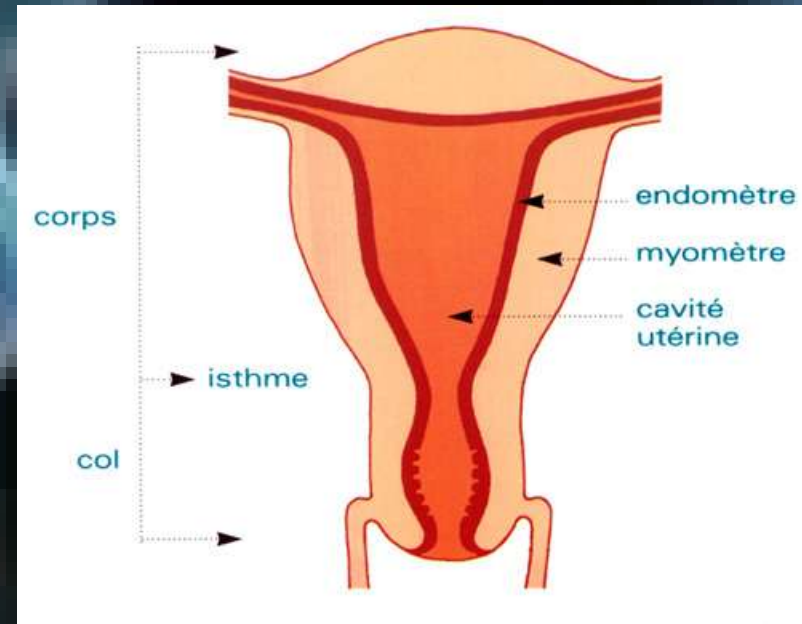
- Body

- Cervix



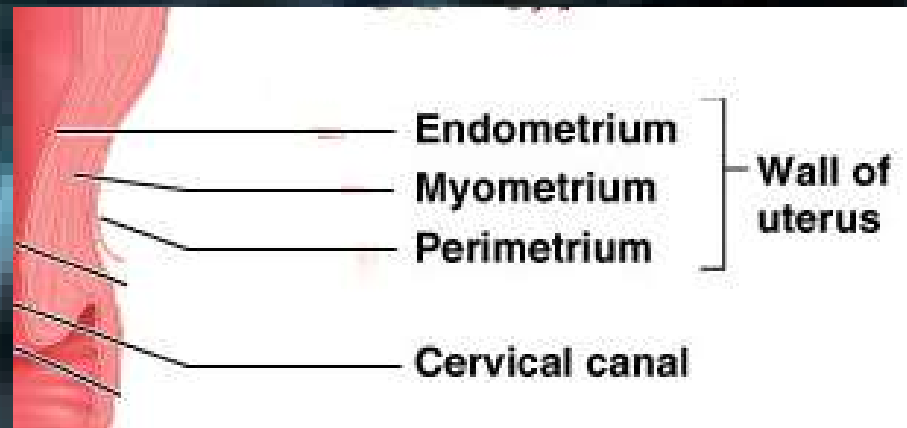
Uterus

- Hollow, muscular, pear-shaped organ
- 3 parts
 - Fundus – top
 - Body – middle
 - Cervix – narrow bottom
- Function
 - Organ of menstruation
 - Allows for the development and growth of the fetus
 - Contracts during birth to aid in the expulsion of the fetus
- Layers
 - endometrial
 - If fertilization does not occur, this lining deteriorate, resulting in menstruation



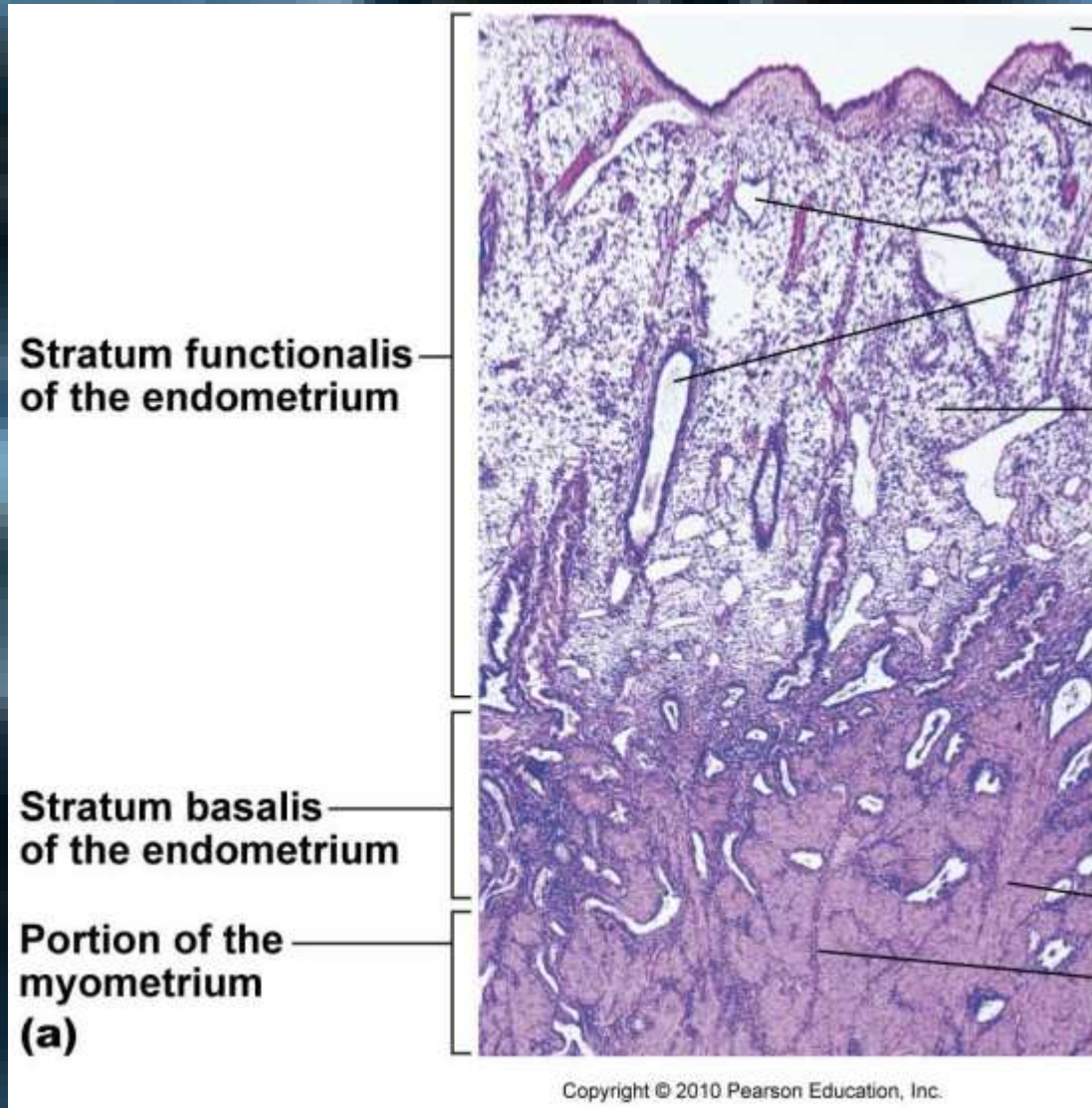
Female Reproductive System

- Uterus
 - Perimetrium
 - Serosa, peritoneum
 - Myometrium
 - Smooth muscle
 - Endometrium
 - Stratum basalis
 - Stratum functionalis



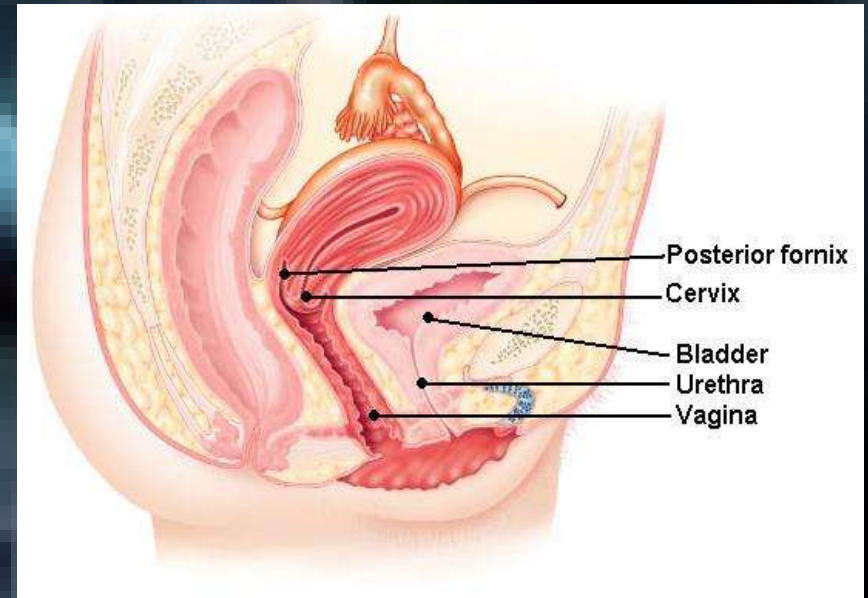
Female Reproductive System

- Uterus
 - Endometrium
 - Stratum functionalis
 - Shed during menses
 - Regrows
 - Stratum basalis
 - Permanent



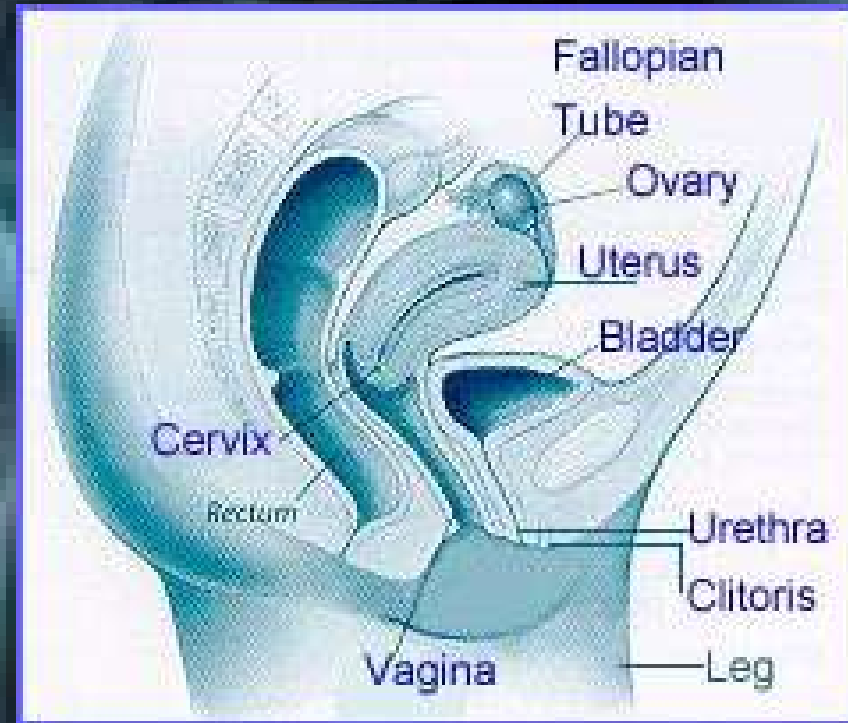
Female Reproductive System

- Vagina
 - Lower part of birth canal
 - Receptacle for penis
 - Lined with stratified squamous epithelium
- Extensible
 - Expands to allow passage of fetal head, ~ 10 cm in diameter



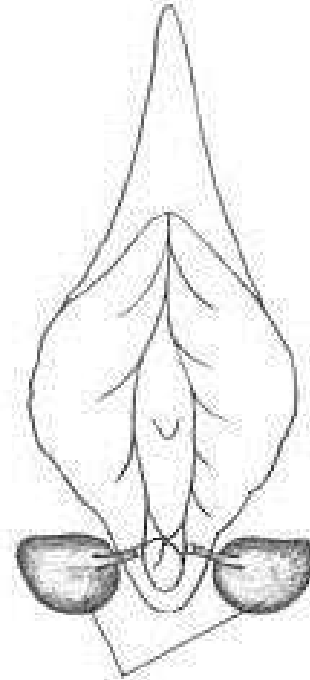
Vagina

- Muscular tube that connects the cervix with the environment
- Function
 - Passage way for menstrual flow
 - Receives sperm and semen from the male
 - Female organ of copulation
 - Birth canal during delivery of the infant



Bartholin's Glands

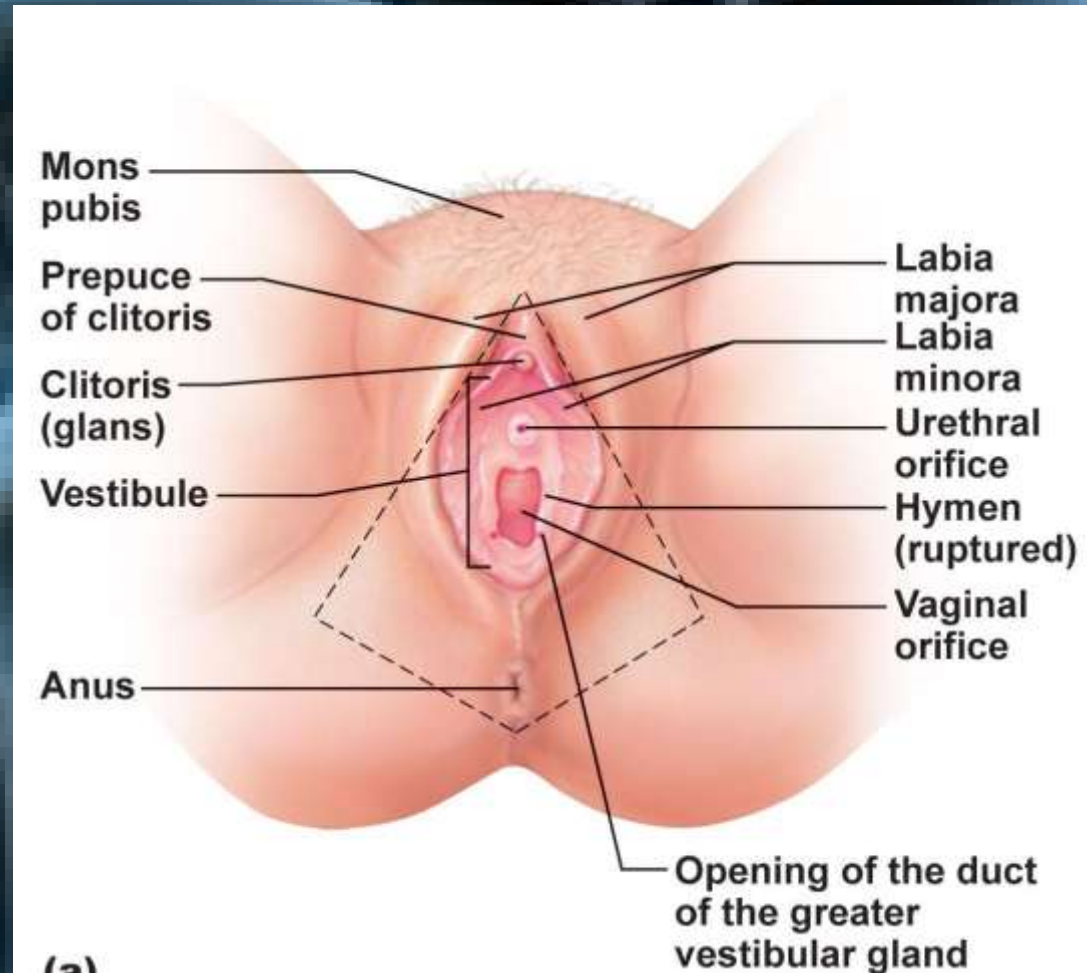
- 2 small glands on either side of the vaginal opening
- Secretes mucous for lubrication during intercourse



6-3 The vulvovaginal glands

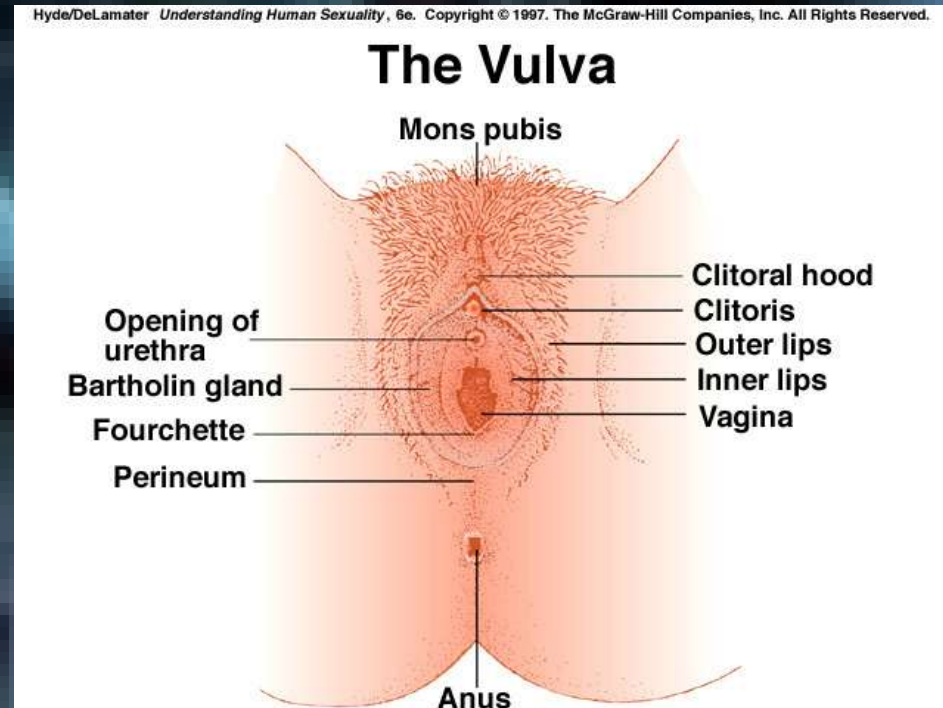
Female Reproductive System

- Vulva, external genitalia
 - Mons pubis
 - Labia majora
 - Labia minora
 - Vaginal orifice
 - Urethral orifice
 - Clitoris
 - Homologous to penis



Vulva

- Collective name for the external female genitalia
- Includes
 - Mons pubis - fat layer
 - Labia majora – outer folds of tissue covered with pubic hair
 - Labia minora – inner folds of tissue
 - Perineum – area between the vagina and anus



THE FEMALE REPRODUCTIVE SYSTEM CHANGES EVERY MONTH FROM THE MENSTRUAL CYCLE, WHICH IS CAUSED BY A VARIETY OF HORMONES THAT FLUCTUATE OVER THE AVERAGE OF 28 DAYS. THE HORMONES INVOLVED INCLUDE LUTENIZING HORMONE AND FOLLICLE STIMULATING HORMONE FROM THE ANTERIOR PITUITARY. PROLACTIN ALSO PLAYS A ROLE IN INCREASING THE SIZE AND PRODUCTION OF THE MAMMARY GLANDS DURING AND AFTER PREGNANCY.

Woman's Cycle

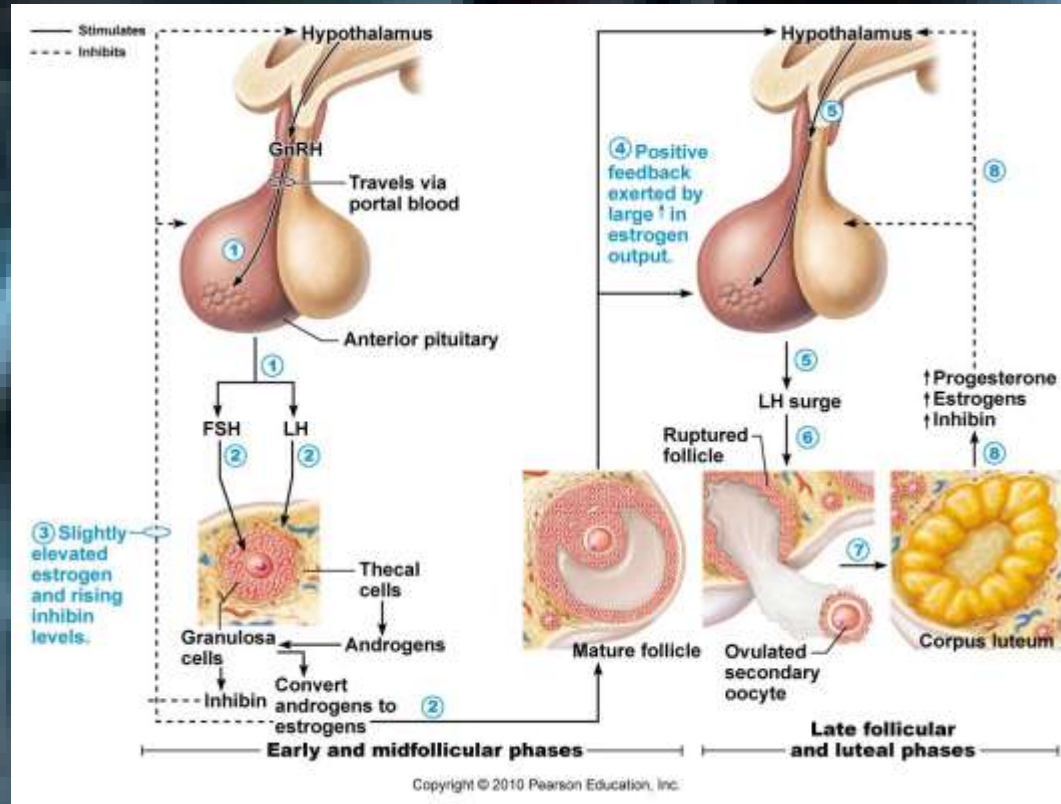
- Day 1 – Menstruation begins (bleeding)
- Day 5 – Menstruation is usually ended
- Day 14 – Ovum has matured and bursts out of the ovary
- Day 15 – After 24 hours the egg is done
- Day 26 – In the absence of fertilization, estrogen/progesterone levels drop and the endometrium lining breaks down
- Day 28 – Menstruation begins again.

TIME LINE:

- **Ages 9-12**
 - Secondary sex characteristics appear
- **Ages 11-14**
 - Menstrual cycle begins
- **Late 20-30's**
 - Peak sexual urges
- **Ages 45-55**
 - Menopause (cycle stops, but sex urge continues)

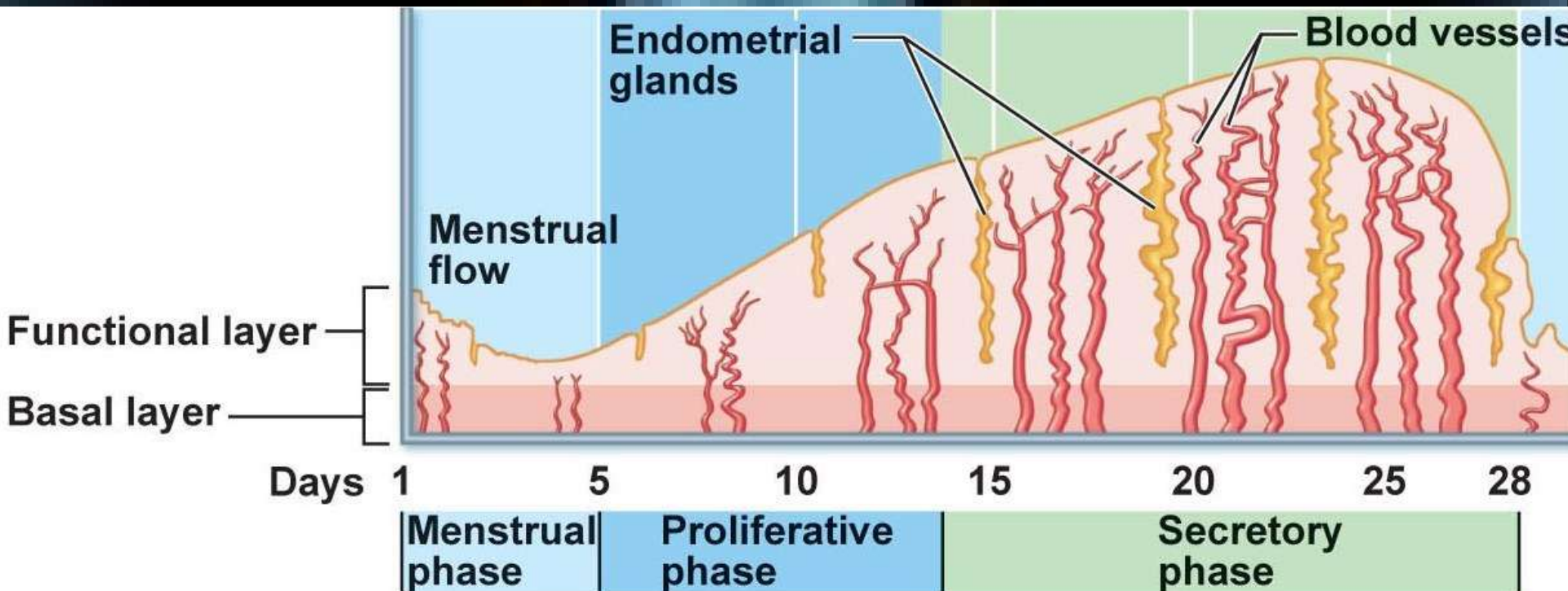
Female Reproductive System

- 
- Ovarian cycle
 - Follicular phase
 - Growth, development of follicles to ovulation.
 - Luteal phase
 - Development & secretion by corpus luteum



Female Reproductive System

- Uterine cycle
 - Menstrual phase (menses)
 - Proliferative phase
 - Secretory phase



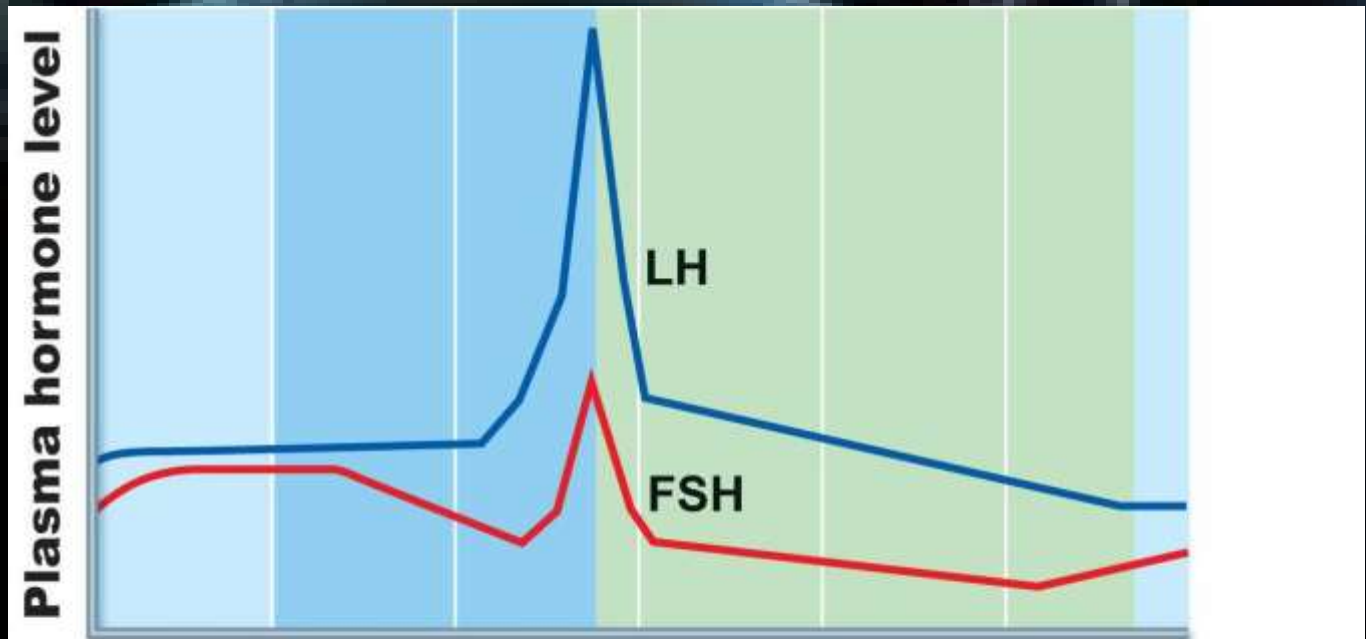
Female Reproductive System

- Endocrine regulation of ovarian & uterine cycles
 - FSH
 - LH
 - Estrogens
 - Progesterone
 - Chorionic gonadotropin

● Endocrine regulation of ovarian & uterine cycles

- FSH

- LH

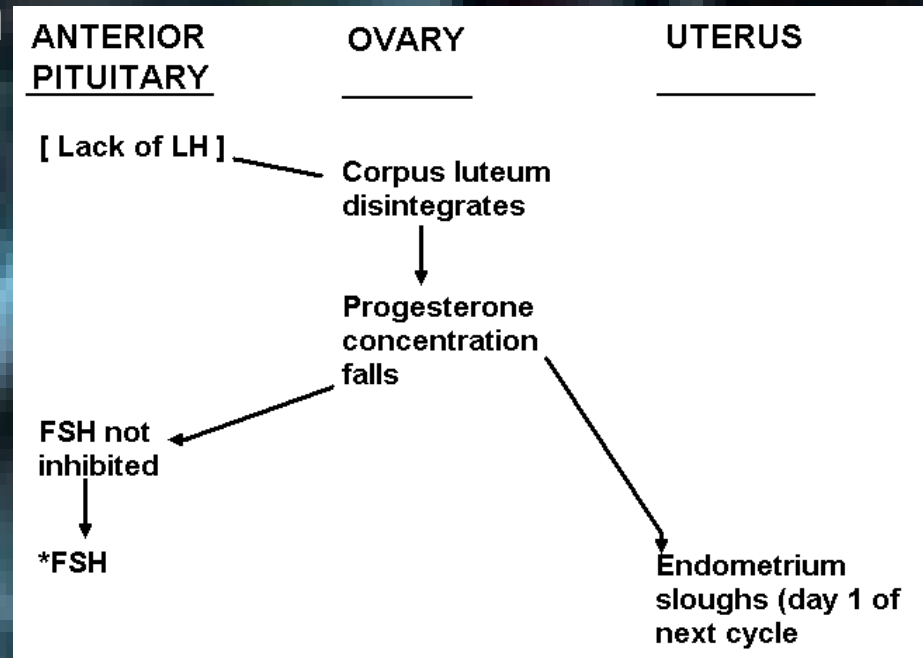


(a) Fluctuation of gonadotropin levels: Fluctuating levels of pituitary gonadotropins (follicle-stimulating hormone and luteinizing hormone) in the blood regulate the events of the ovarian cycle.

Female Reproductive System

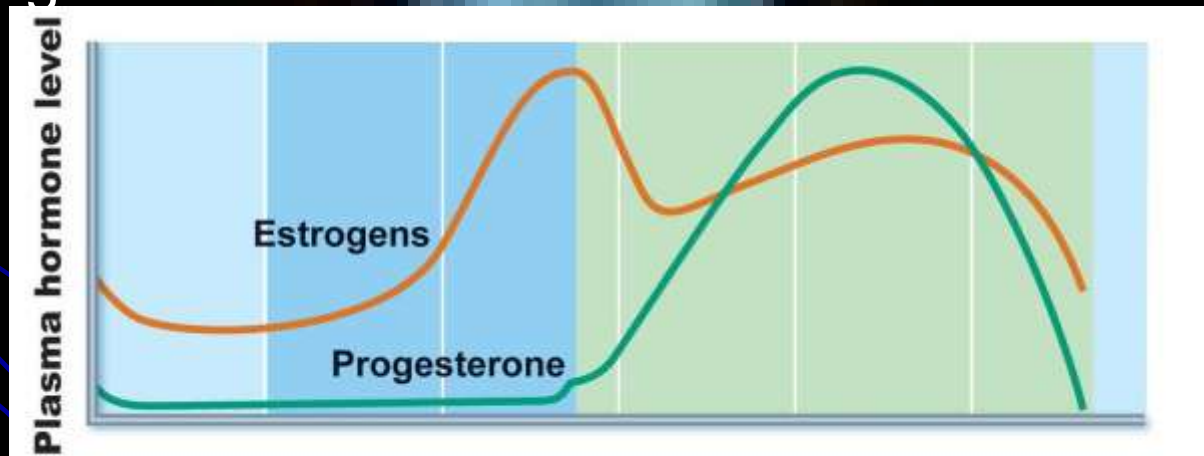
- Endocrine regulation of ovarian & uterine cycles

- FSH
- LH
- Estrogens
- Progesterone
- Chorionic gonadotropin



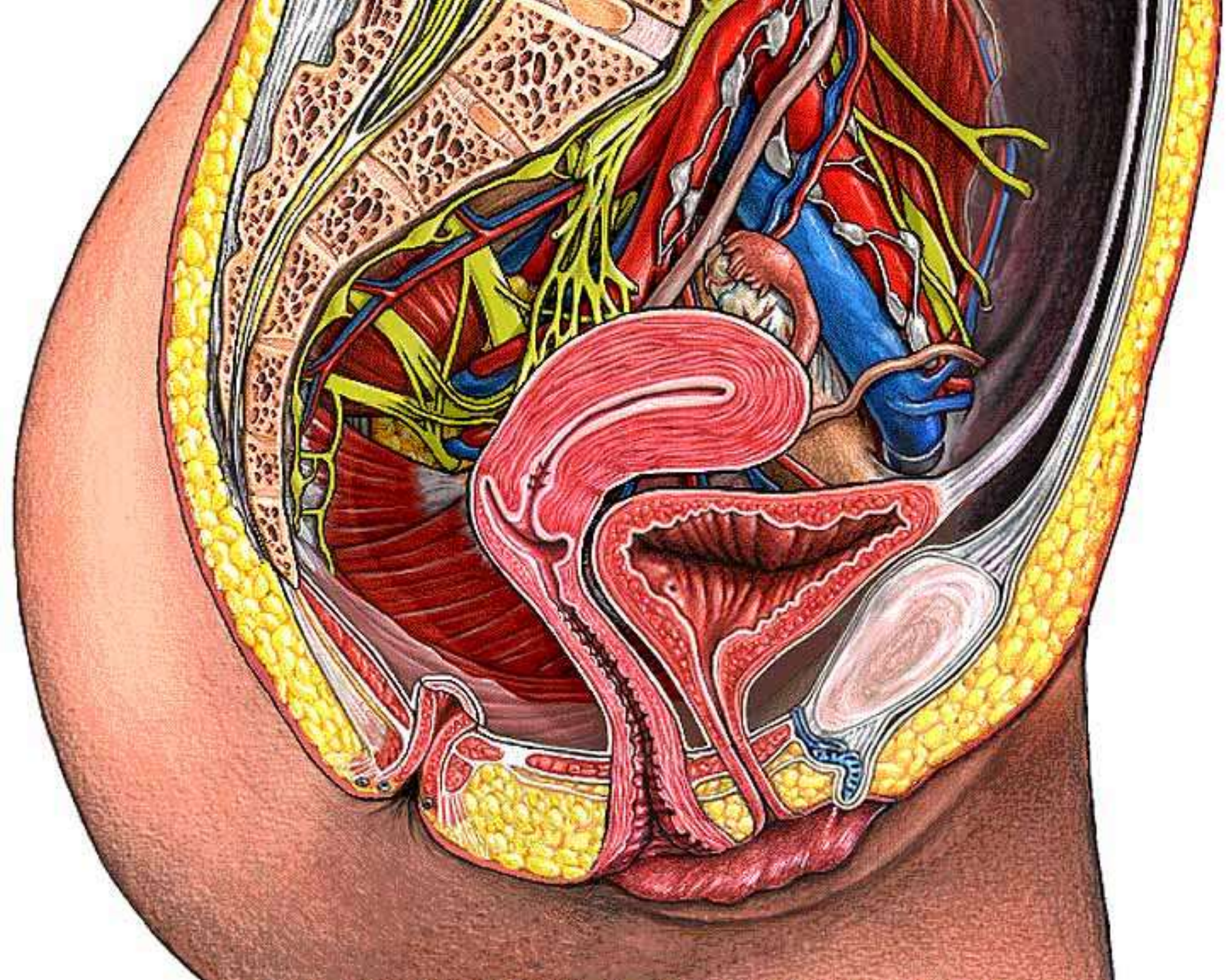
Female Reproductive System

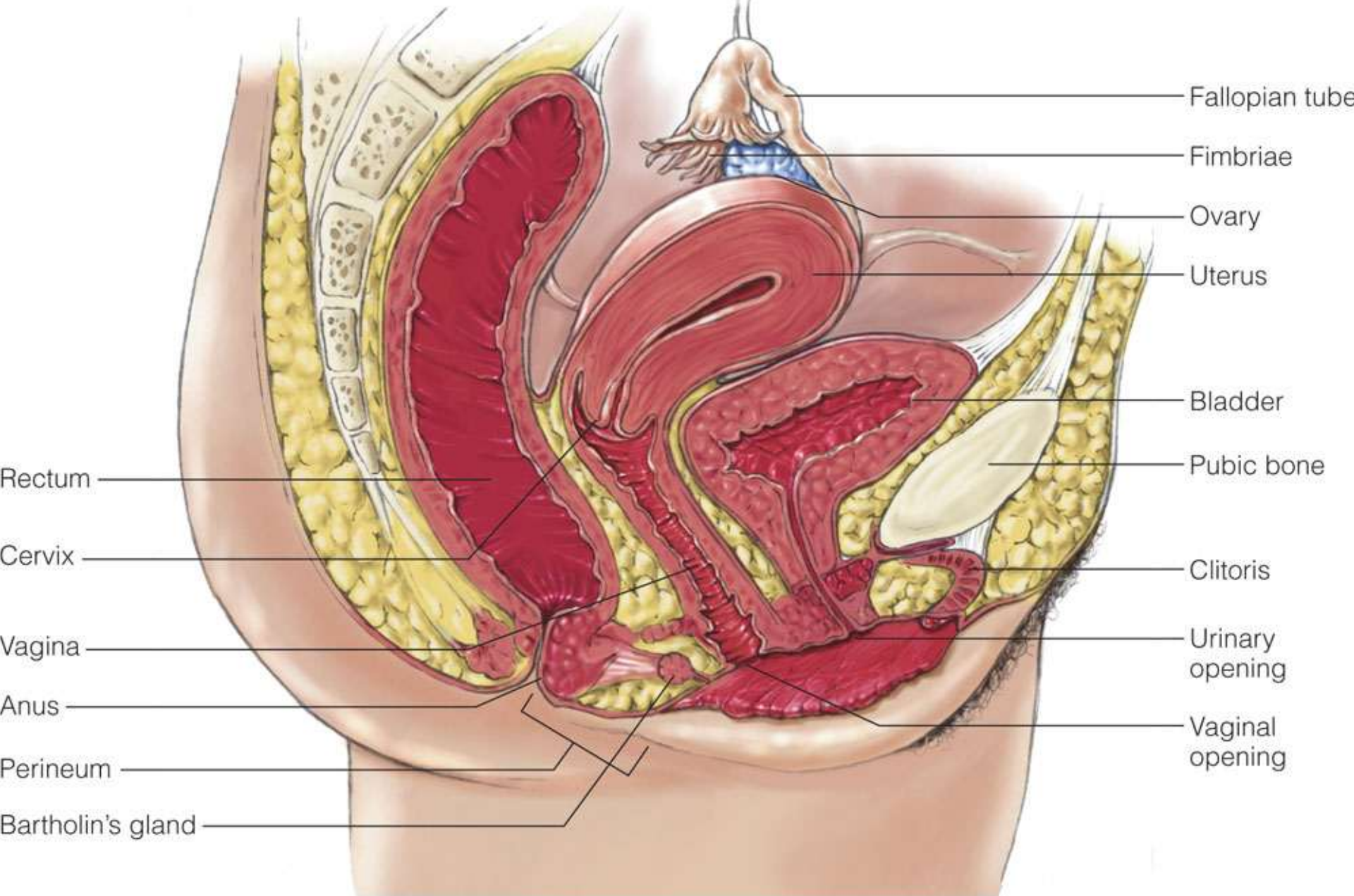
- ovarian & uterine cycles
 - Estrogens
 - Progesterone
- Endocrine regulation of gestation
 - Chorionic gonadotropin



(c) Fluctuation of ovarian hormone levels:
Fluctuating levels of ovarian hormones (estrogens and progesterone) cause the endometrial changes of the uterine cycle. The high estrogen levels are also responsible for the LH/FSH surge in (a).

**GENITAL ORGANS OR
GENITALS, PROVIDING
DEVELOPMENT AND
OUTPUT GAMETES, ALSO
PERFORM AN ENDOCRINE
FUNCTION.**





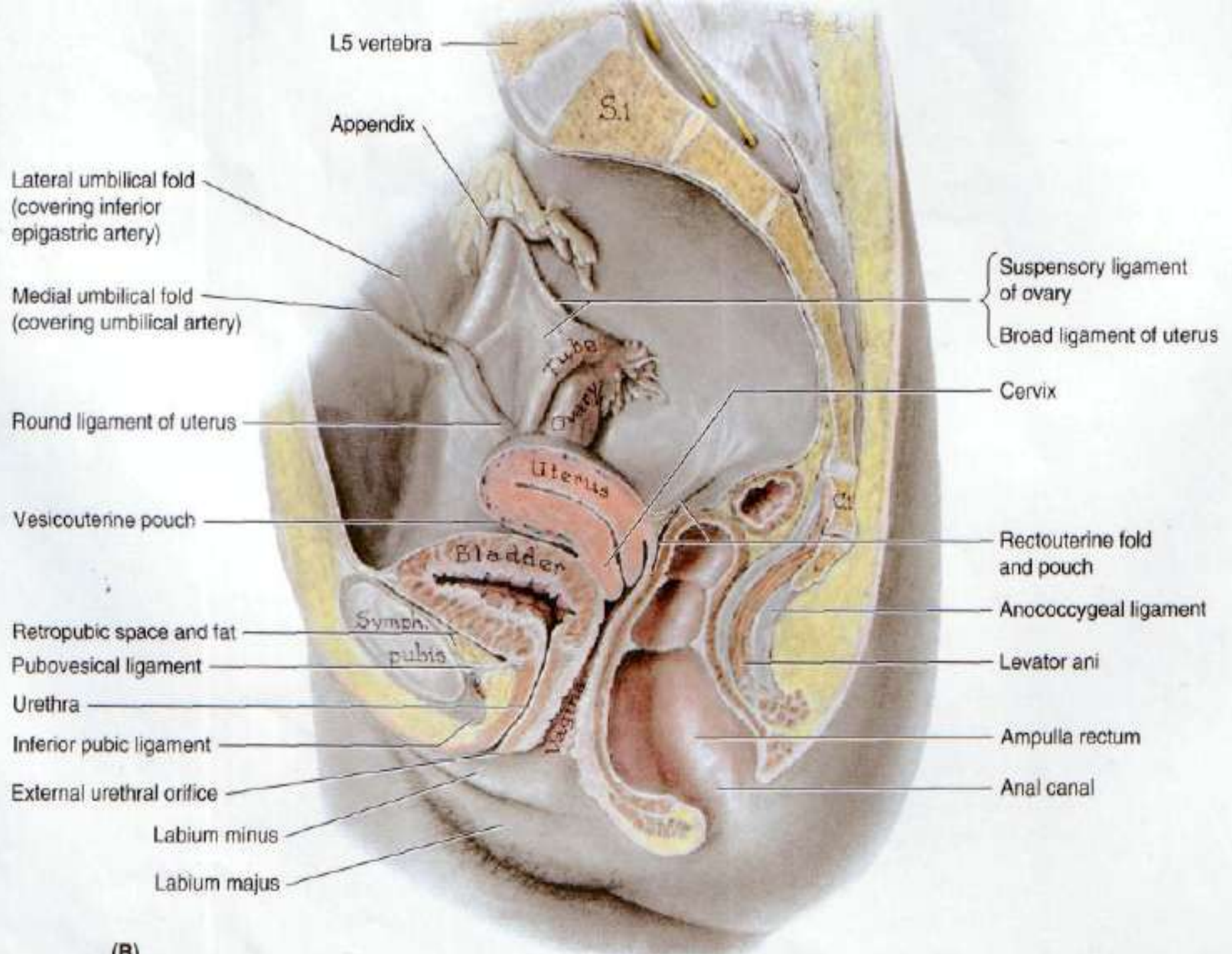
© 2007 Thomson Higher Education

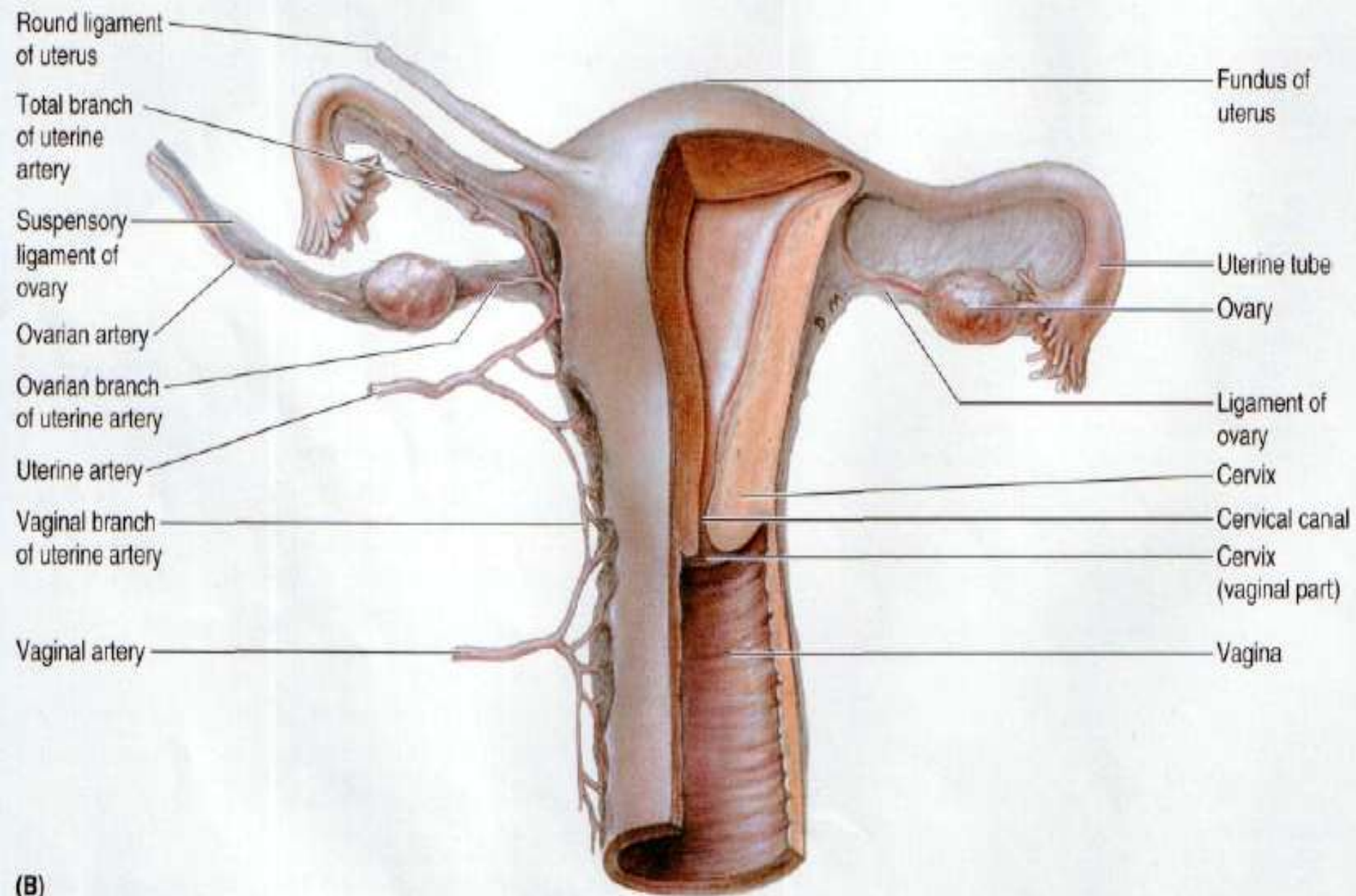
The female internal reproductive system (side view).

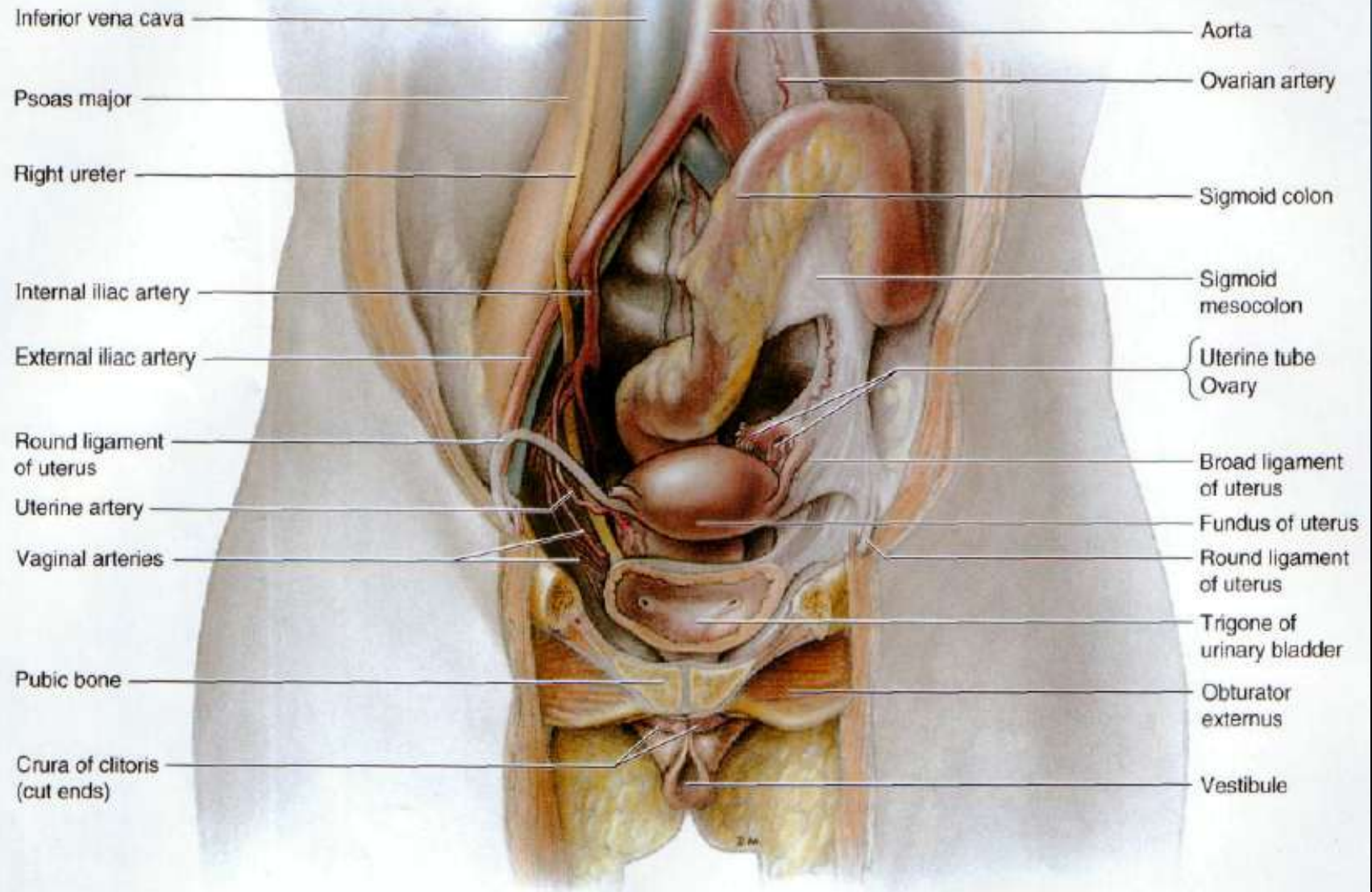
The female reproductive system is designed to carry out several functions. It produces the female egg cells necessary for reproduction, called the ova or oocytes. The system is designed to transport the ova to the site of fertilization. Conception, the fertilization of an egg by a sperm, normally occurs in the fallopian tubes. The next step for the fertilized egg is to implant into the walls of the uterus, beginning the initial stages of pregnancy. If fertilization and/or implantation does not take place, the system is designed to menstruate (the monthly shedding of the uterine lining). In addition, the female reproductive system produces female sex hormones that maintain the reproductive cycle.

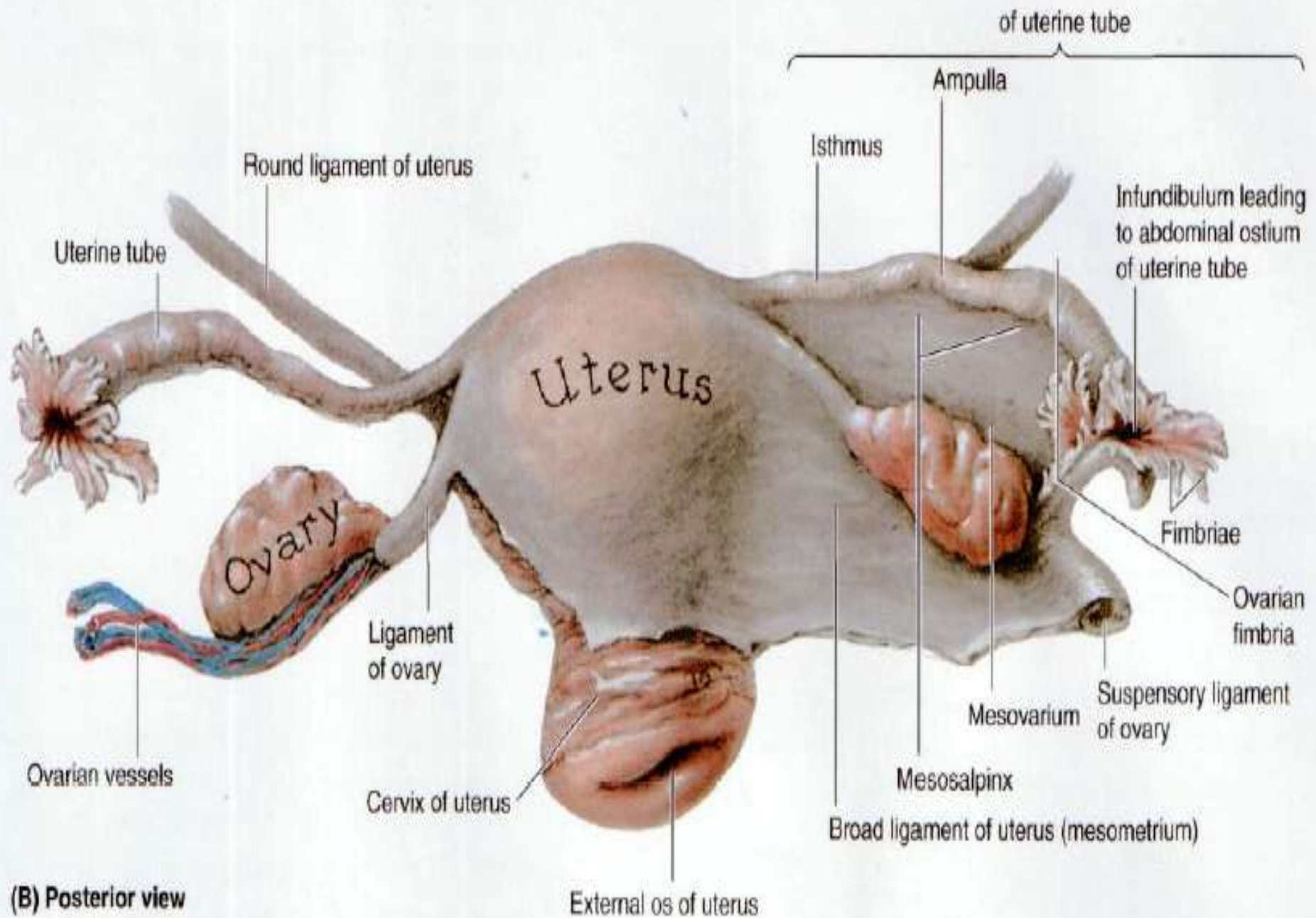
COMPLIANCE WITH FUNCTIONAL
PURPOSE IN THE MALE AND
FEMALE GENITALS THERE ARE
THREE DIVISIONS:

- GONADS,
- GENITAL DUCTS,
- COPULATIVE ORGANS.

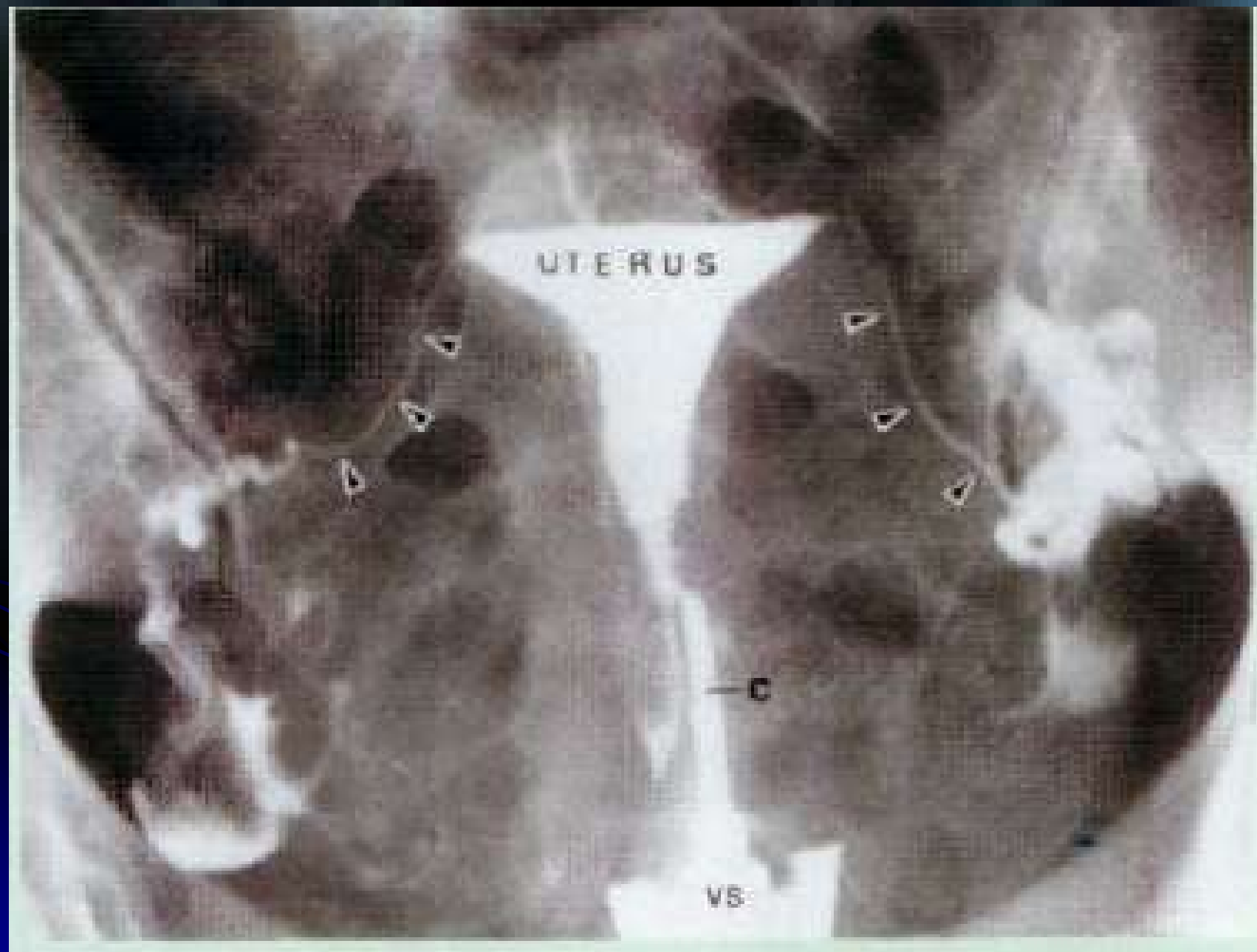








(B) Posterior view



FEMALE GENITAL ORGANS

FEMALE REPRODUCTIVE SYSTEM



```
graph TD; A[FEMALE REPRODUCTIVE SYSTEM] --> B[THE INTERNAL GENITAL (ORGANA GENITALIA INTERNA):]; A --> C[PUDENDA (ORGANA GENITALIA EXTERNA):];
```

THE INTERNAL GENITAL (ORGANA GENITALIA INTERNA):

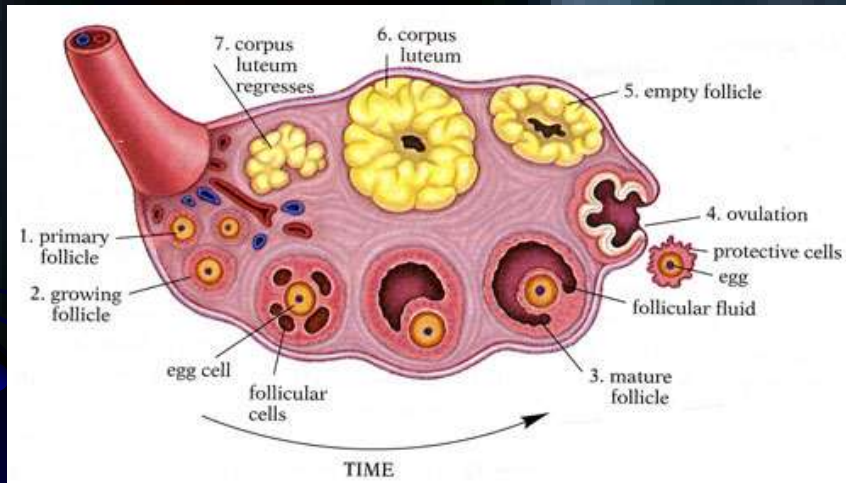
- OVARIES (OVARIA)
- FALLOPIAN TUBES
(SALPINGES)
- THE UTERUS
- VAGINA

PUDENDA (ORGANA GENITALIA EXTERNA):

- VULVA (VULVA);
- CLITORIS (CLITORIS)

OVARY

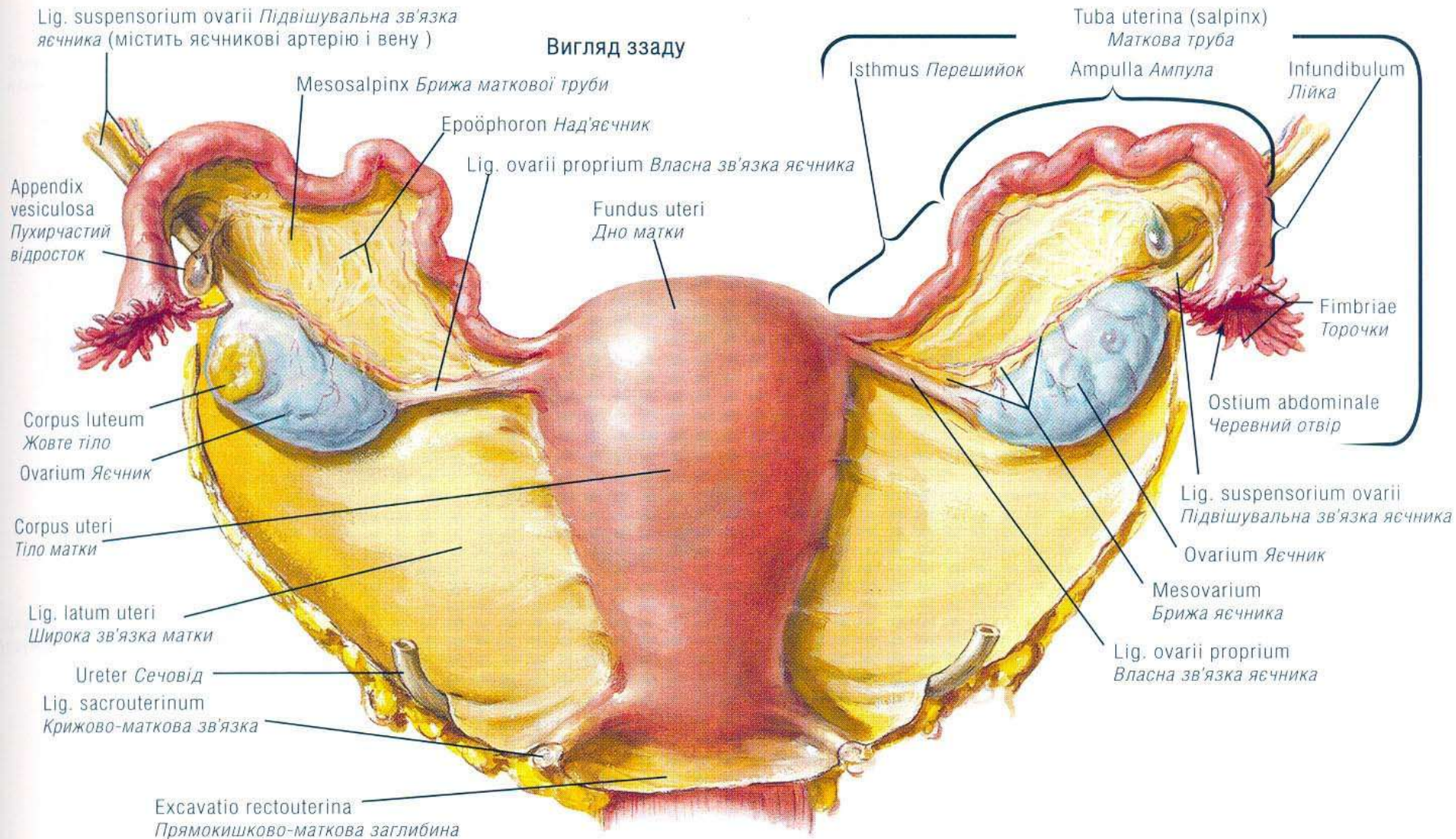
OVARIES ARE PART OF THE FEMALE REPRODUCTIVE SYSTEM. NORMALLY, A FEMALE HAVE TWO OVARIES, EACH OF THEM IS PERFORMING TWO MAJOR FUNCTIONS: PRODUCING EGGS, OR (EXOCRINE FUNCTION) AND SECRETING HORMONES, OR (ENDOCRINE SYSTEM). OVARIES IN FEMALES ARE HOMOLOGOUS TO TESTES IN MALES. THE TERM GONADS REFER TO THE OVARIES IN FEMALES AND TESTES IN MALES.



OVARY
(OVARIUM
S. OOPHORON)

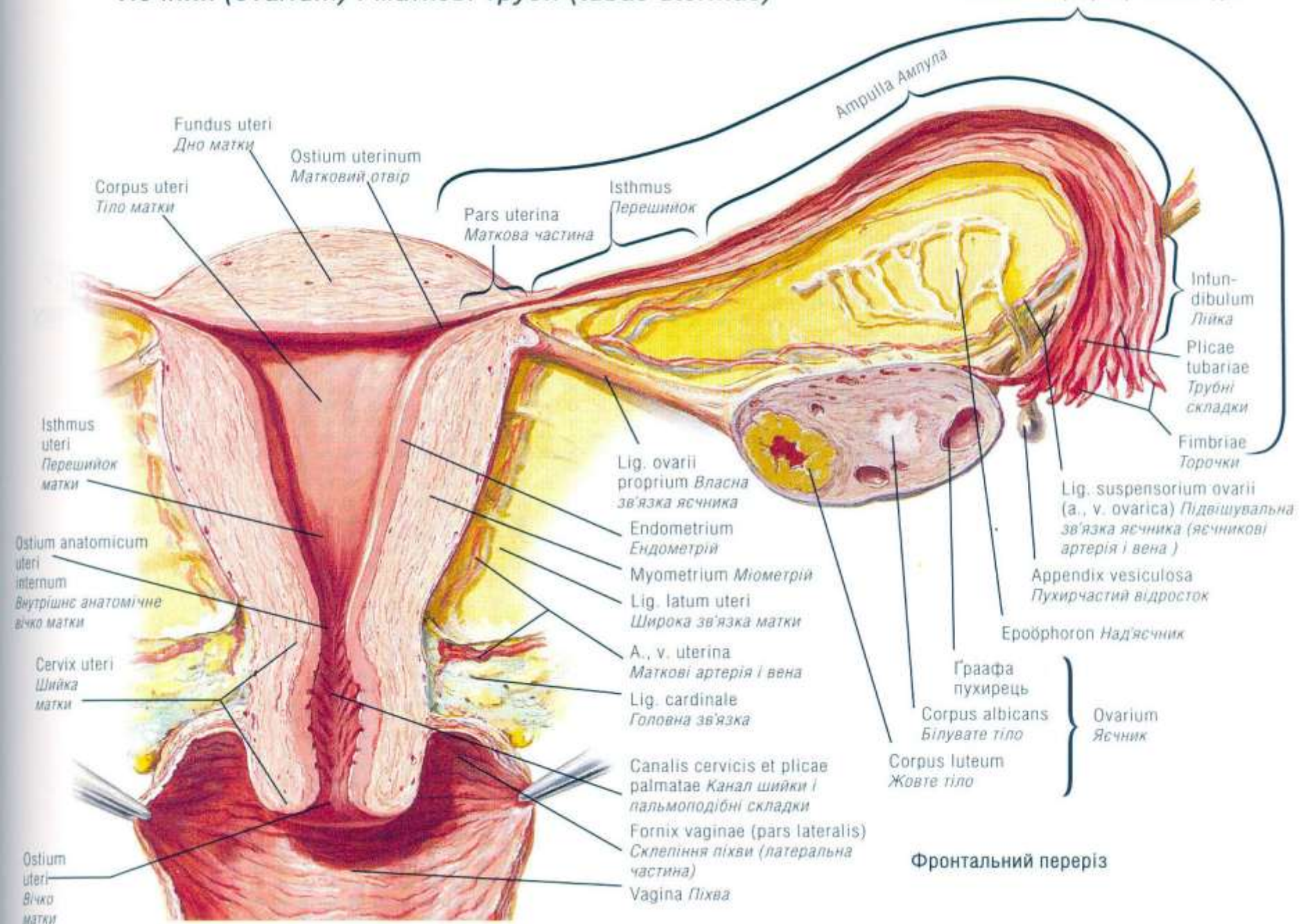
**THE OVARIES ARE THE ORGANS
OF THE FORMATION OF GERM
CELLS AND THE PRODUCTION OF
SEX HORMONES; IN FUNCTIONAL-
TERM RESPECT OVARY PLAYS A
LEADING ROLE IN THE
REPRODUCTIVE SYSTEM WOMEN.**

Яєчник (ovarium) і маткові труби (tubae uterinae)

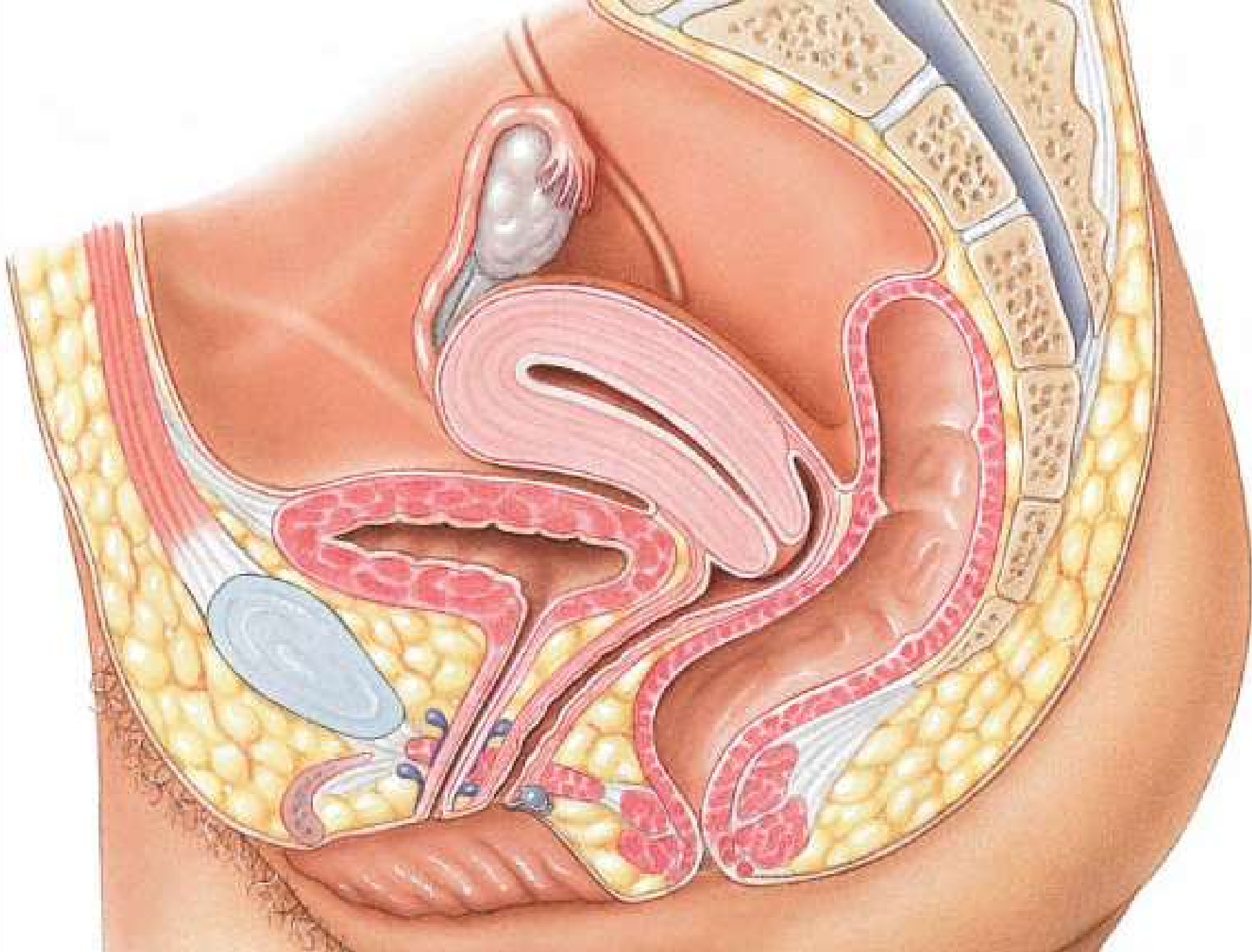


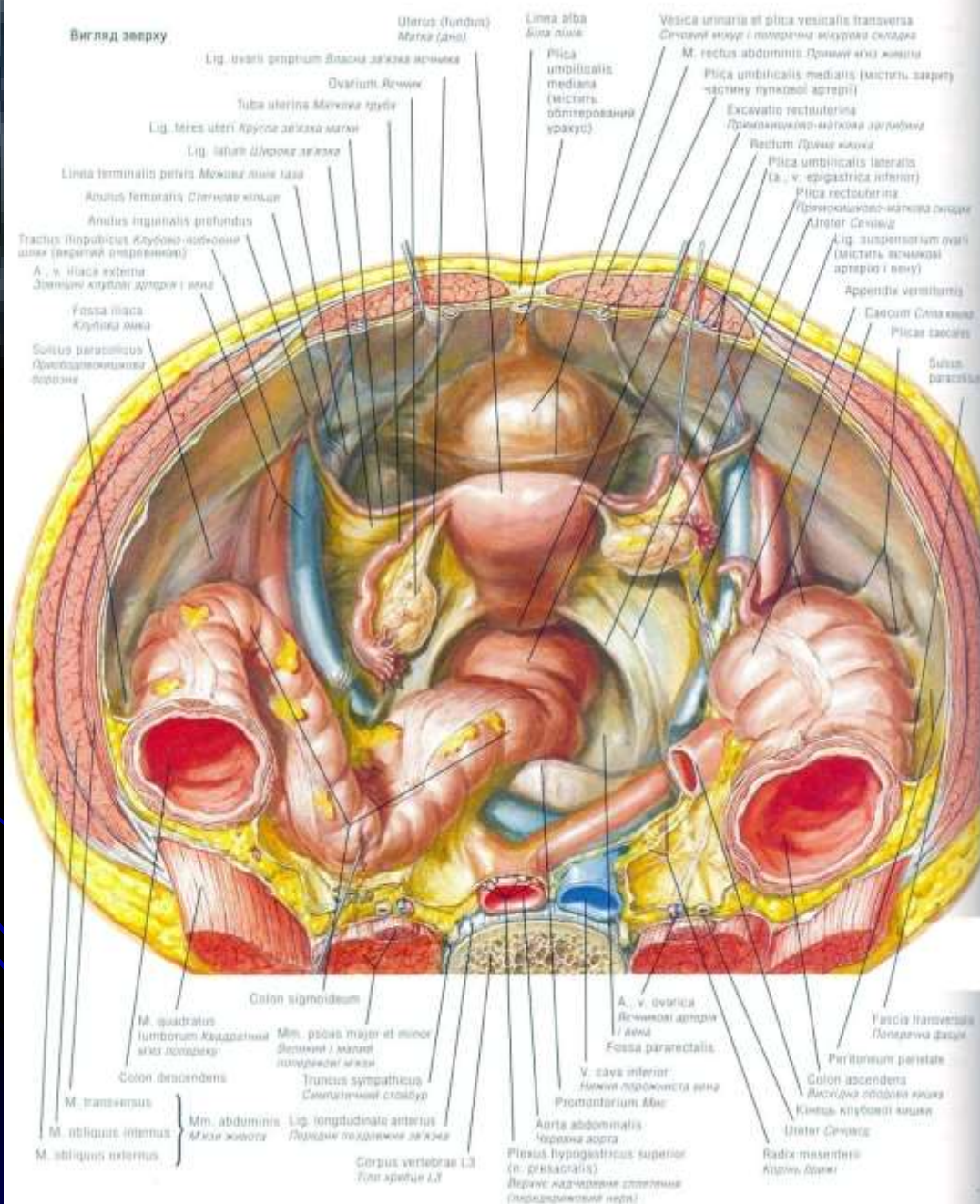
Яєчник (ovarium) і маткові труби (tubae uterinae)

Tuba uterina (salpinx) Маткова труба



Фронтальний переріз



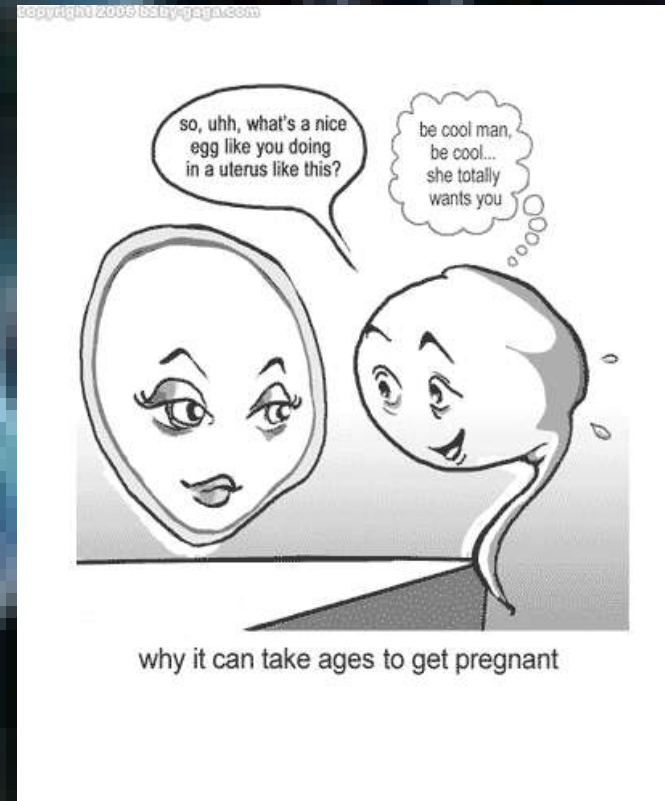


MEDULLA CONSISTS OF
CONNECTIVE TISSUE IN IT
BRANCHED VESSELS AND
NERVES (VASCULAR ZONE).
CORTEX CITIES IN NEWBORNS
IN BOTH OVARIES 2 MILLION.
PRIMARY FOLLICLES, WHICH
ARE EMBRYO EGGS.

THE OVARIES ARE IN THE PERITONEAL CAVITY, THEY HAVE PROTEIN SHELL AND COATED THE OUTSIDE SURFACE EPITHELIUM. IN THE OVARY DISTINGUISH CORTICAL AND MEDULLA. THE BOUNDARY BETWEEN THEM IS NOT CLEARLY EXPRESSED.

Ova

- The female reproductive cell.
- They are the largest cells in the female body. (about the size of a grain of sand.)
- The female baby is born with all the ova she will ever have (about 200,000 in each ovary).
- About 400-500 ova mature and are released over a lifetime



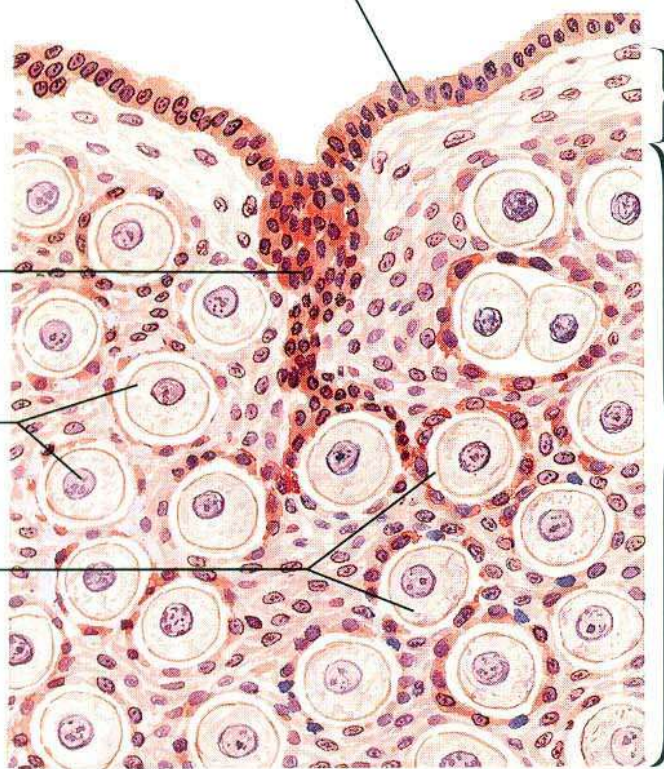
Яєчник, яйцеклітини і фолікули

Поверхневий епітелій
(кубічні клітини)

Епітеліальний
тяж
фолікула

Примордіальні
фолікули

Первинні
фолікули



Яєчник новонародженої

Tunica
albuginea
Білкова
оболонка

Cortex
ovarіi
Кора
яєчника

Ovocyтus Овоцит

Zona pellucida
Прозора зона

Corona radiata
Променистий
вінець

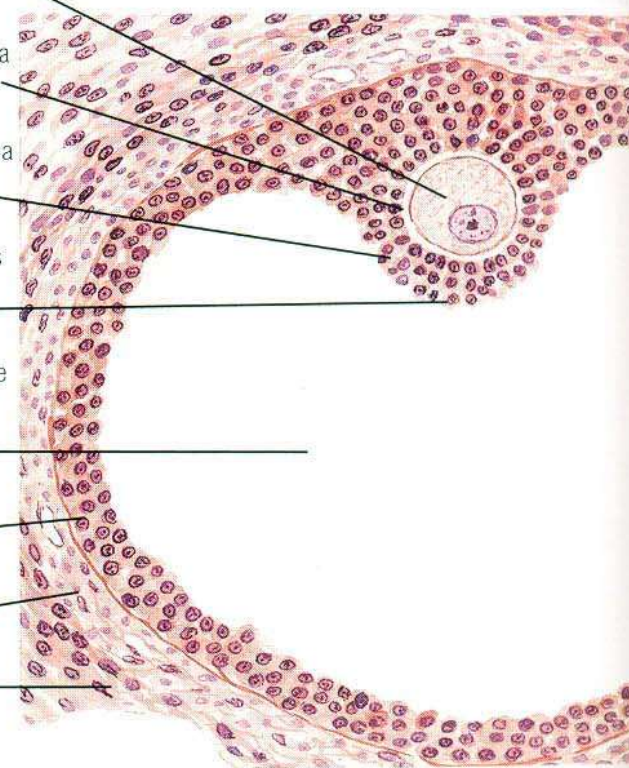
Cumulus oophorus
Яйценосний
горбок

Antrum folliculare
Печера фолікула
(заповнена
рідиною)

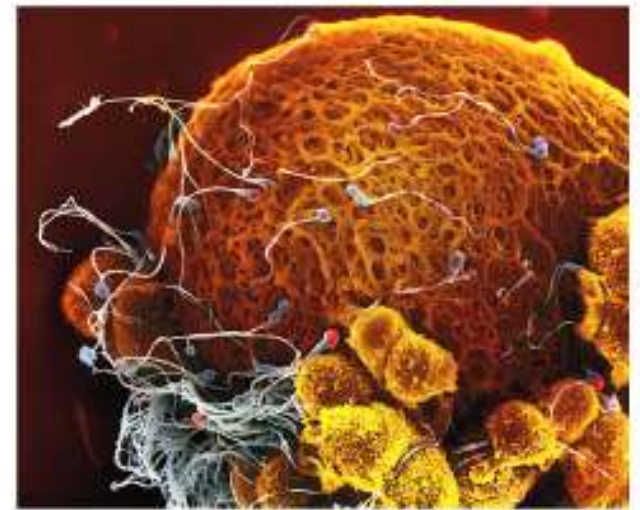
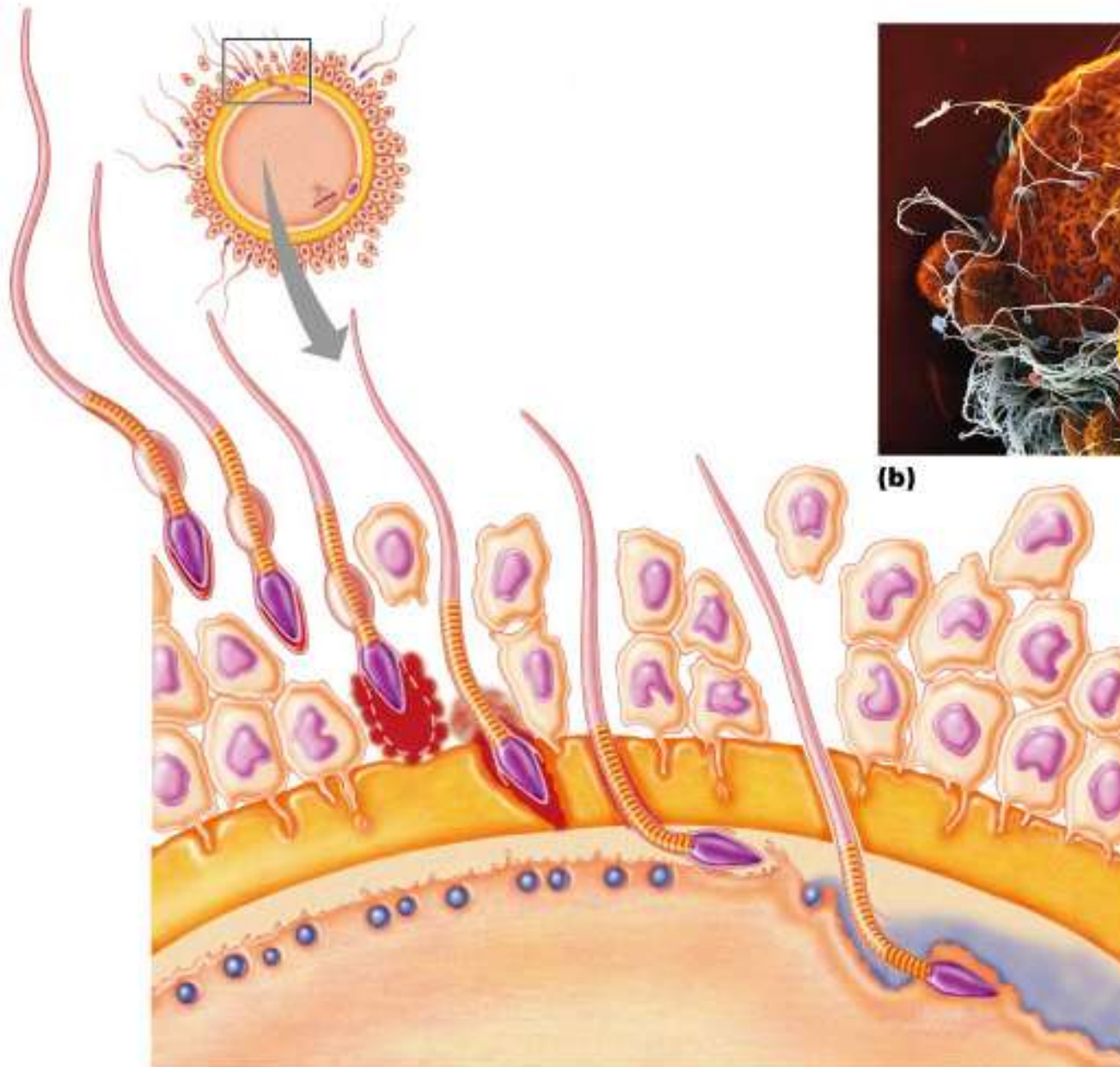
Зерниста зона
(гранульоза)

Theca interna
Внутрішня тека

Theca externa
Зовнішня тека



Будова зрілого фолікула

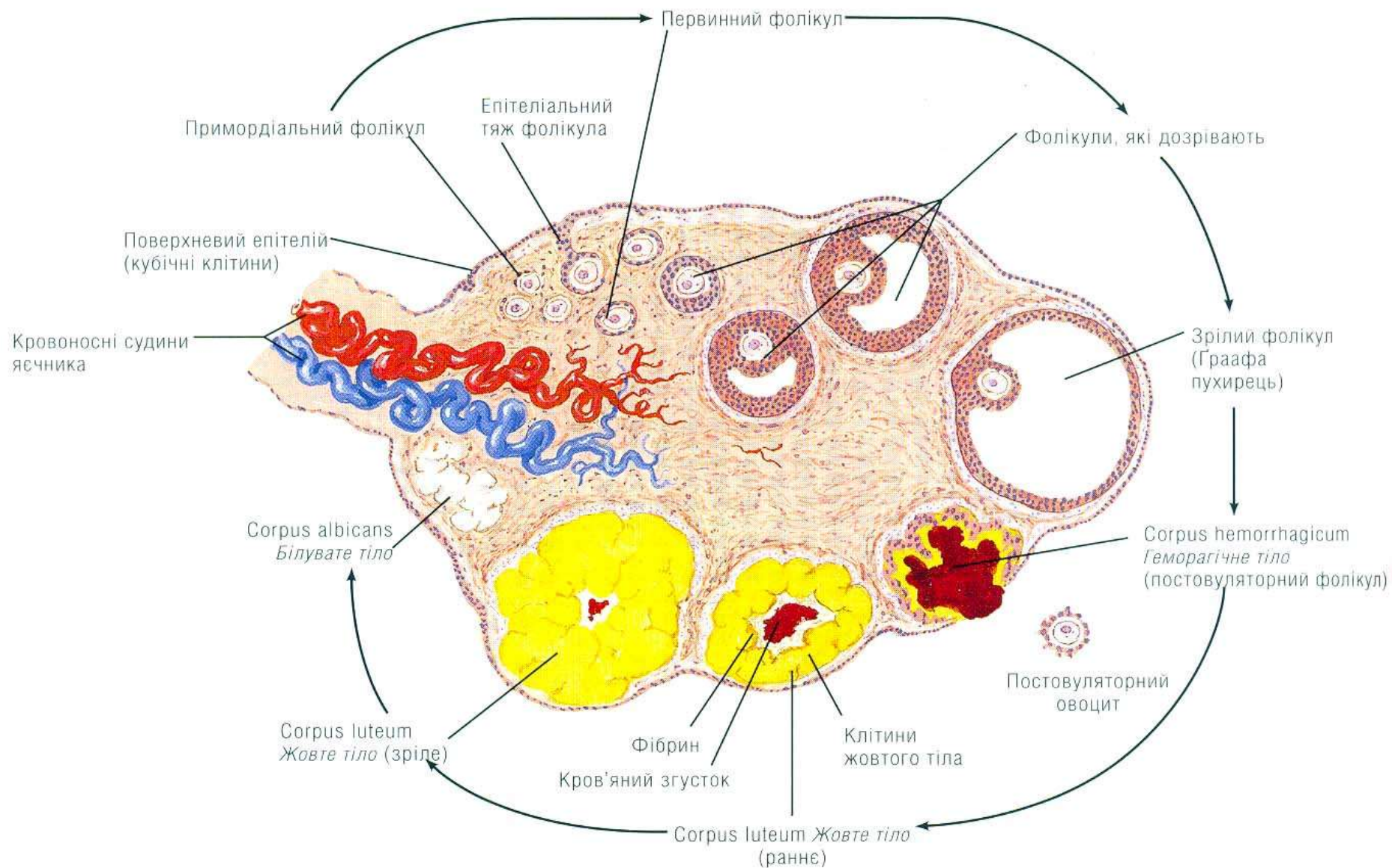


(b)

(a)

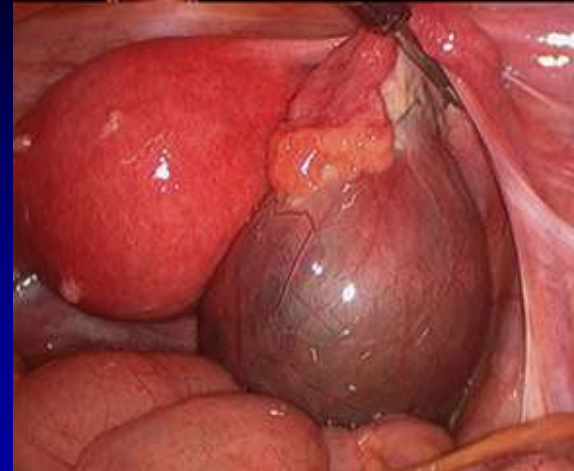
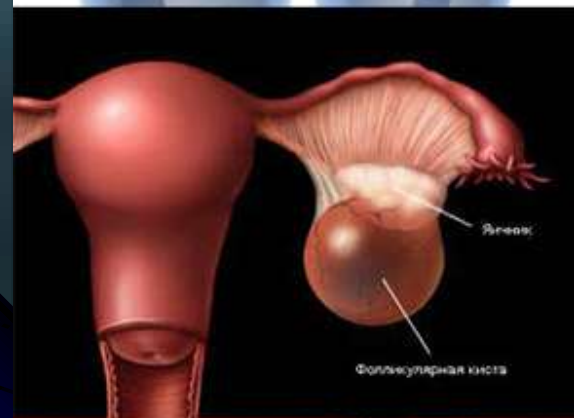
DURING THE REPRODUCTIVE PERIOD THAT CONTINUES IN WOMEN FROM THE ONSET OF MENARCHE TO 40-50 YEARS, TIME TO MATURE NO MORE THAN 400-500 EGGS.

CYCLICAL CHANGES IN OVARIAN RELATED
OVULATION AND CORPUS LUTEUM
FORMATION, UNDER THE CONTROL OF
GONADOTROPIN HORMONE AND
ACCOMPANIED BY THE PRODUCTION OF
HORMONES, WHICH CAUSE CHANGES IN
THE UTERUS, ASSOCIATED WITH
MENSTRUAL CYCLE AND PREGNANCY.



Оваріальний (яєчниковий) цикл

Ovarium brush



Ovarium cancer





FALLOPIAN TUBES

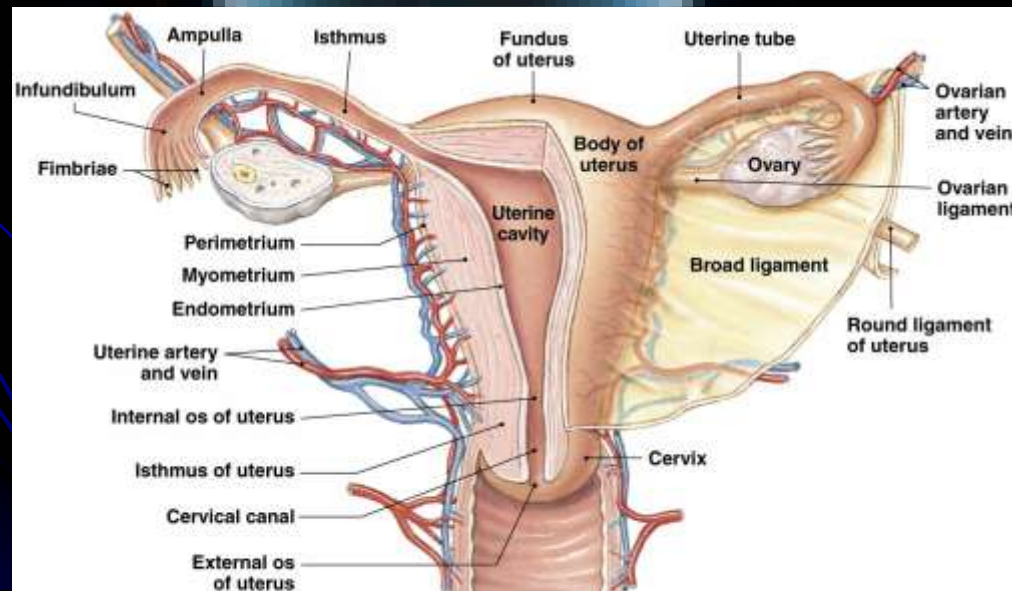
(TUBA UTERINA;
s. SALPINX,
s. OVIDUCTUS)

The Uterine Tubes

- Fallopian tubes or oviducts
 - Are hollow, muscular tubes about 13 cm (5.2 in.) in length
 - Transport oocyte from ovary to the uterus
- Histology of the Uterine Tube
 - Epithelium lining uterine tube:
 - Contains scattered mucin-secreting cells
 - Mucosa is surrounded by concentric layers of smooth muscle

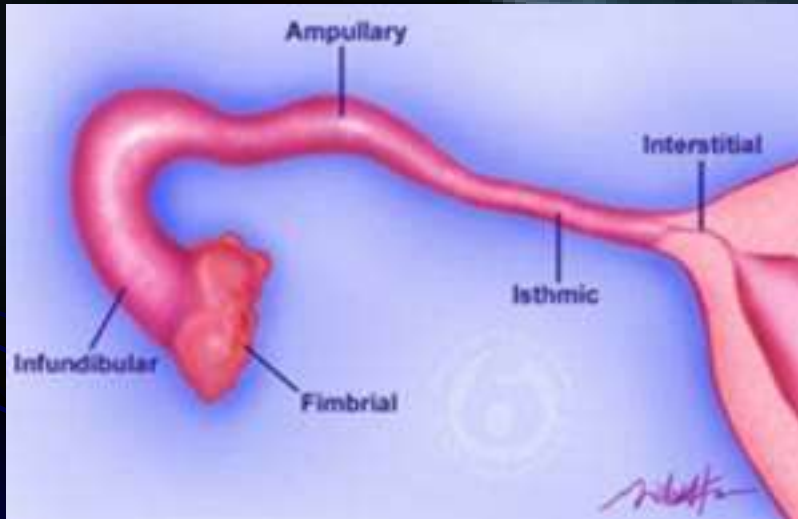
The Uterine Tubes

- Uterine Tube and Fertilization
 - For fertilization to occur:
 - Secondary oocyte must meet spermatozoa during first 12 to 24 hours
 - Fertilization typically occurs:
 - Near boundary between ampulla and isthmus

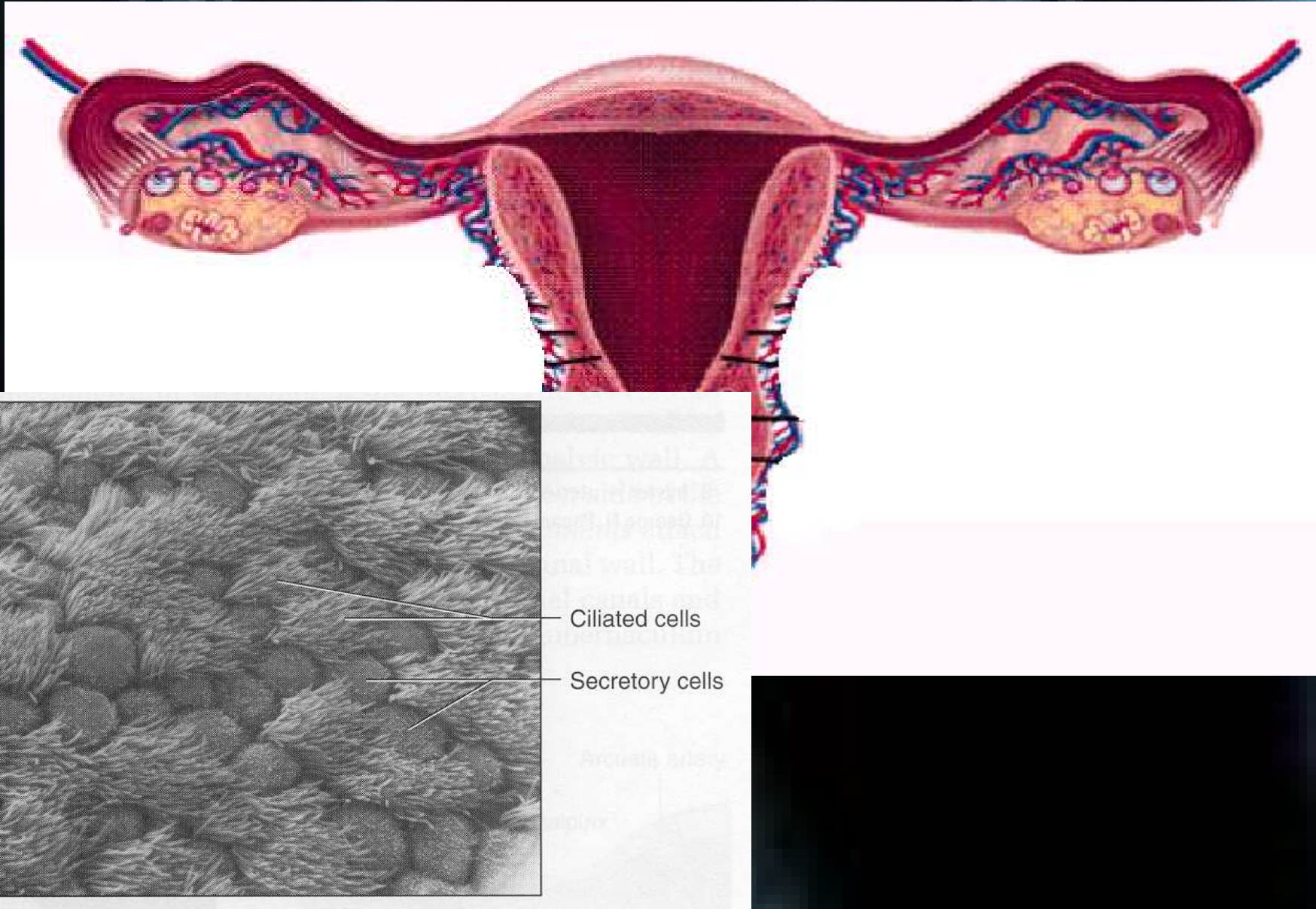


Fallopian Tubes

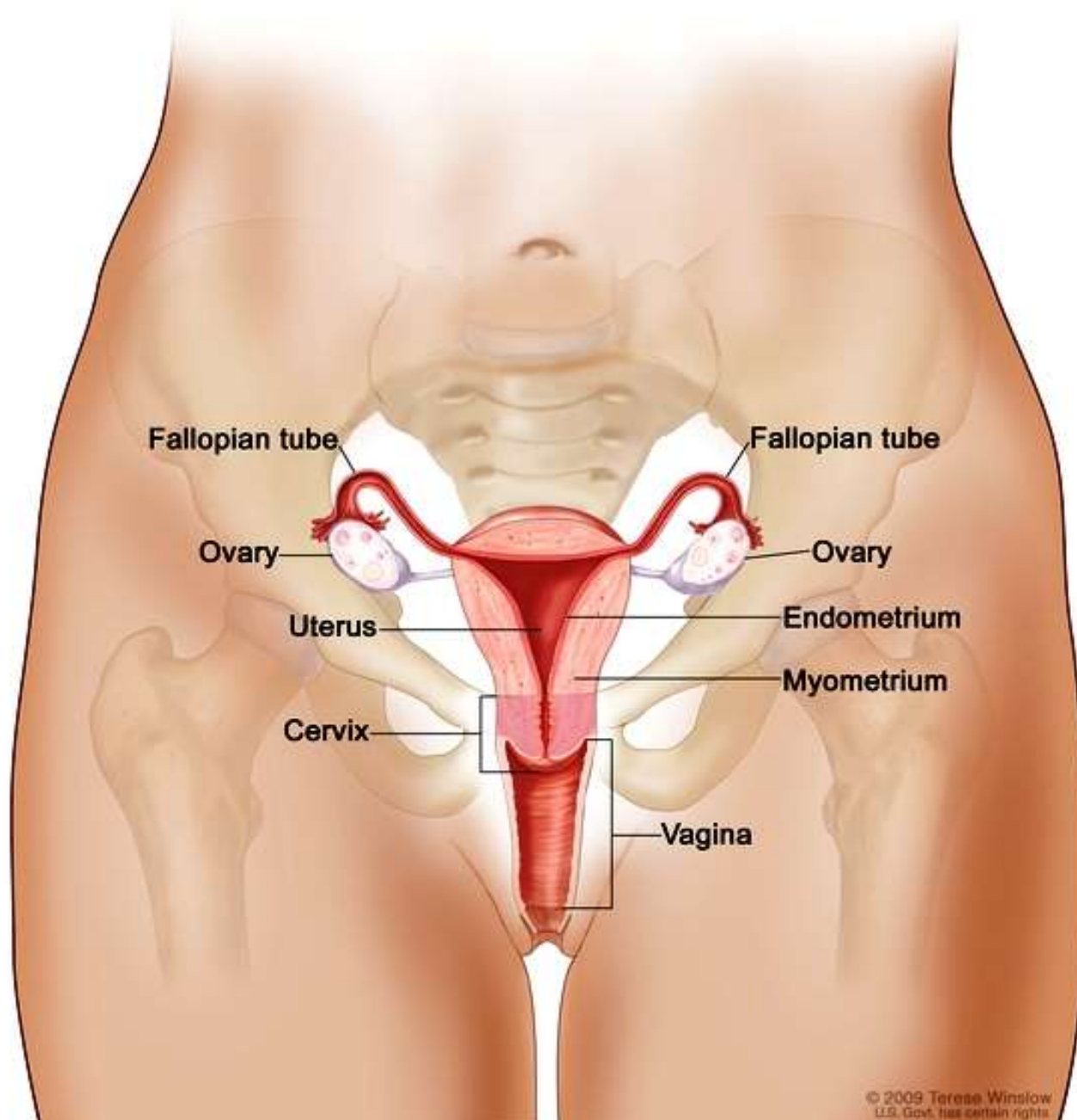
The Fallopian tubes, also known as oviducts, uterine tubes, and saplings, are two tubes leading from the ovaries of female into the uterus.



The Uterine Tubes (oviduct)



The cilia beat toward the uterus.





Ligament of ovary / Власна зв'язка яєчника;
 Матково-яєчникова зв'язка /
 Собственная связка яичника /
 Lig. ovarii proprium; Lig. uteroovaricum

Ovary / Яєчник /
 Яичник / Ovarium

Suspensory ligament /
 Підвішувальна зв'язка /
 Подвешивающая связка /
 Lig. suspensorium

Hilum of ovary / Ворота
 яєчника / Ворота яичника /
 Hilum ovarii

Mesovarium / Брижа
 яєчника / Брыжейка
 яичника / Mesovarium

Broad ligament of uterus /
 Широка маткова зв'язка /
 Широкая связка матки /
 Lig. latum uteri

POSTERIOR

Infundibulum /
 Лійка / Воронка /
 Infundibulum

Ampulla /
 Ампула /
 Ампула /
 Ampulla

Isthmus /
 Перешийок /
 Перешеек /
 Isthmus

Uterine tube /
 Маткова труба /
 Маточная труба /
 Tuba uterina

Round ligament of uterus / Кругла
 маткова зв'язка / Круглая связка
 матки / Lig. teres uteri

Fundus of uterus / Дно матки /
 Дно матки / Fundus uteri

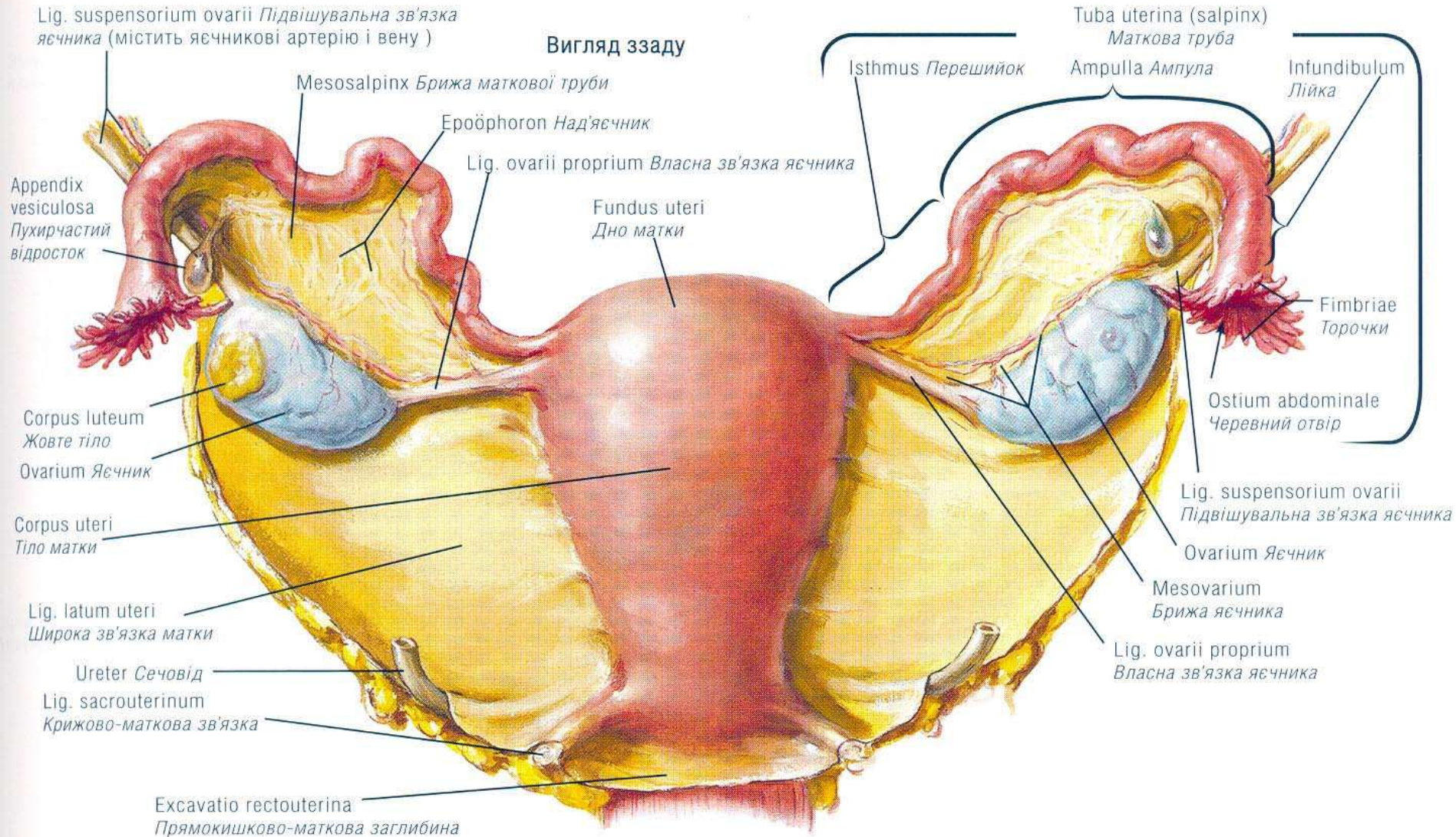
Urinary bladder / Сечовий міхур /
 Мочевой пузырь / Vesica urinaria

ANTERIOR

PLATE 66

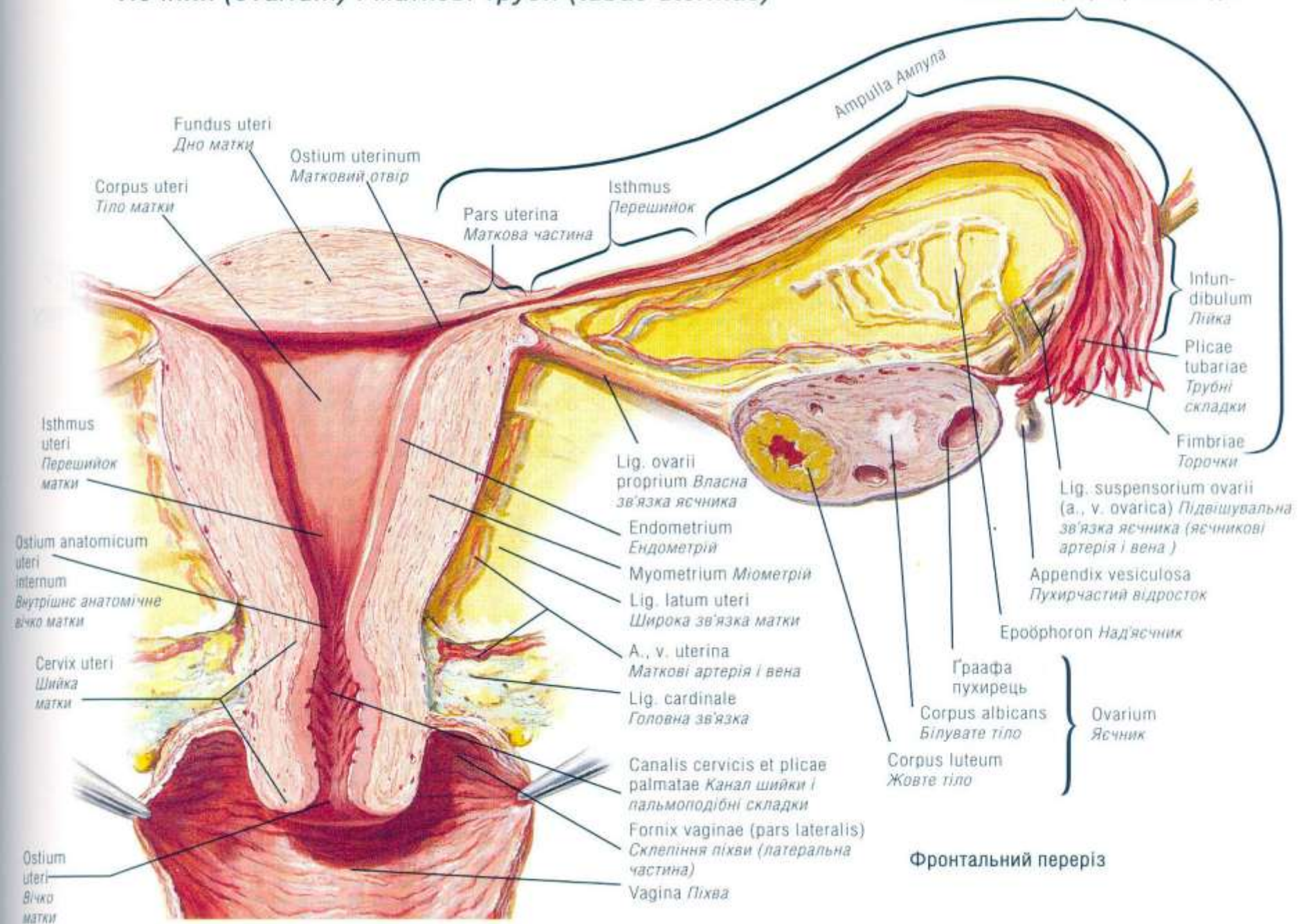
PELVIC CAVITY, SUPERIOR VIEW /
 ПОРОЖНИНА ТАЗА, ВИГЛЯД ЗВЕРХУ /
 ТАЗОВАЯ ПОЛОСТЬ, ВИД СВЕРХУ

Яєчник (ovarium) і маткові труби (tubae uterinae)

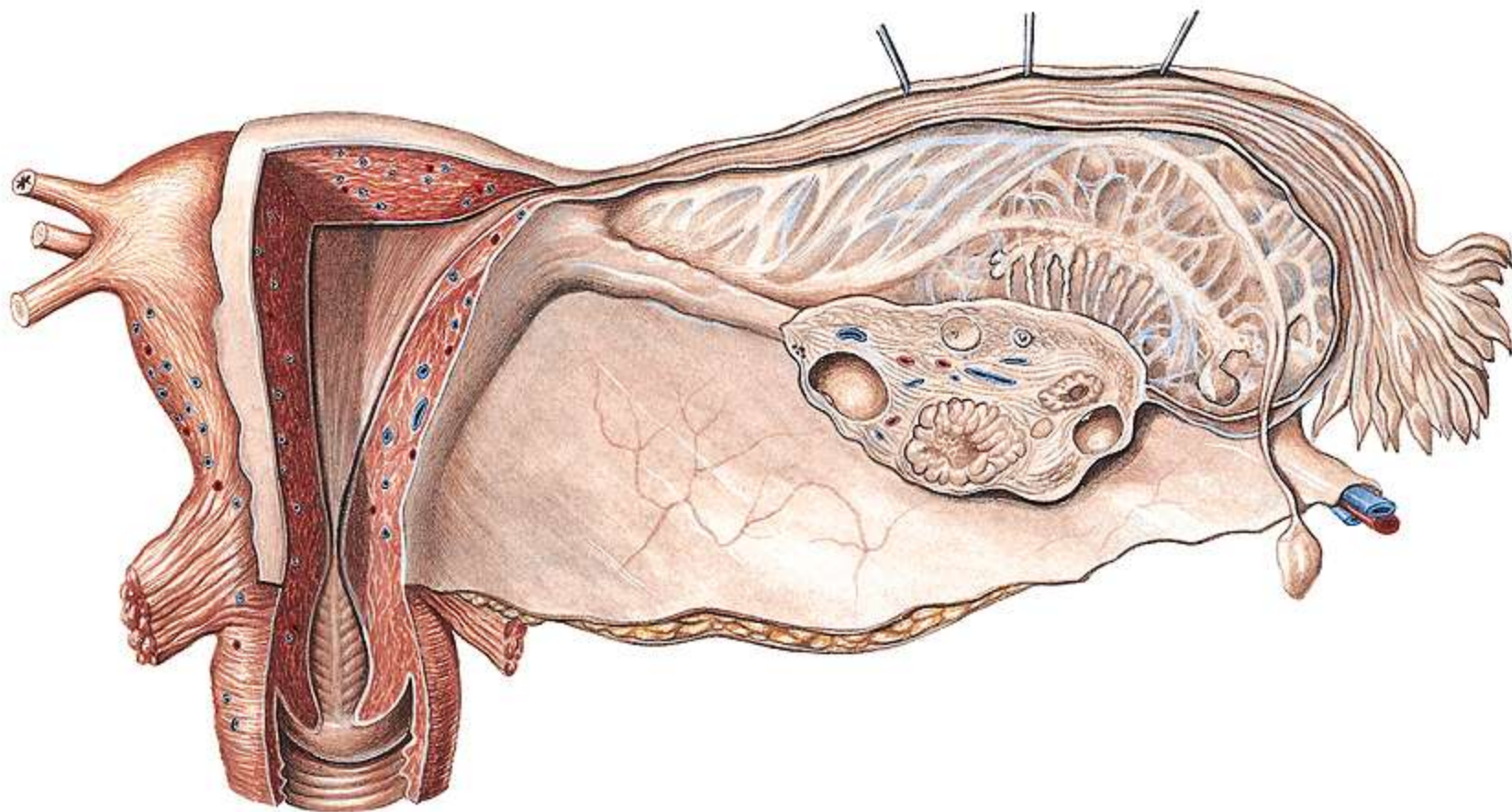


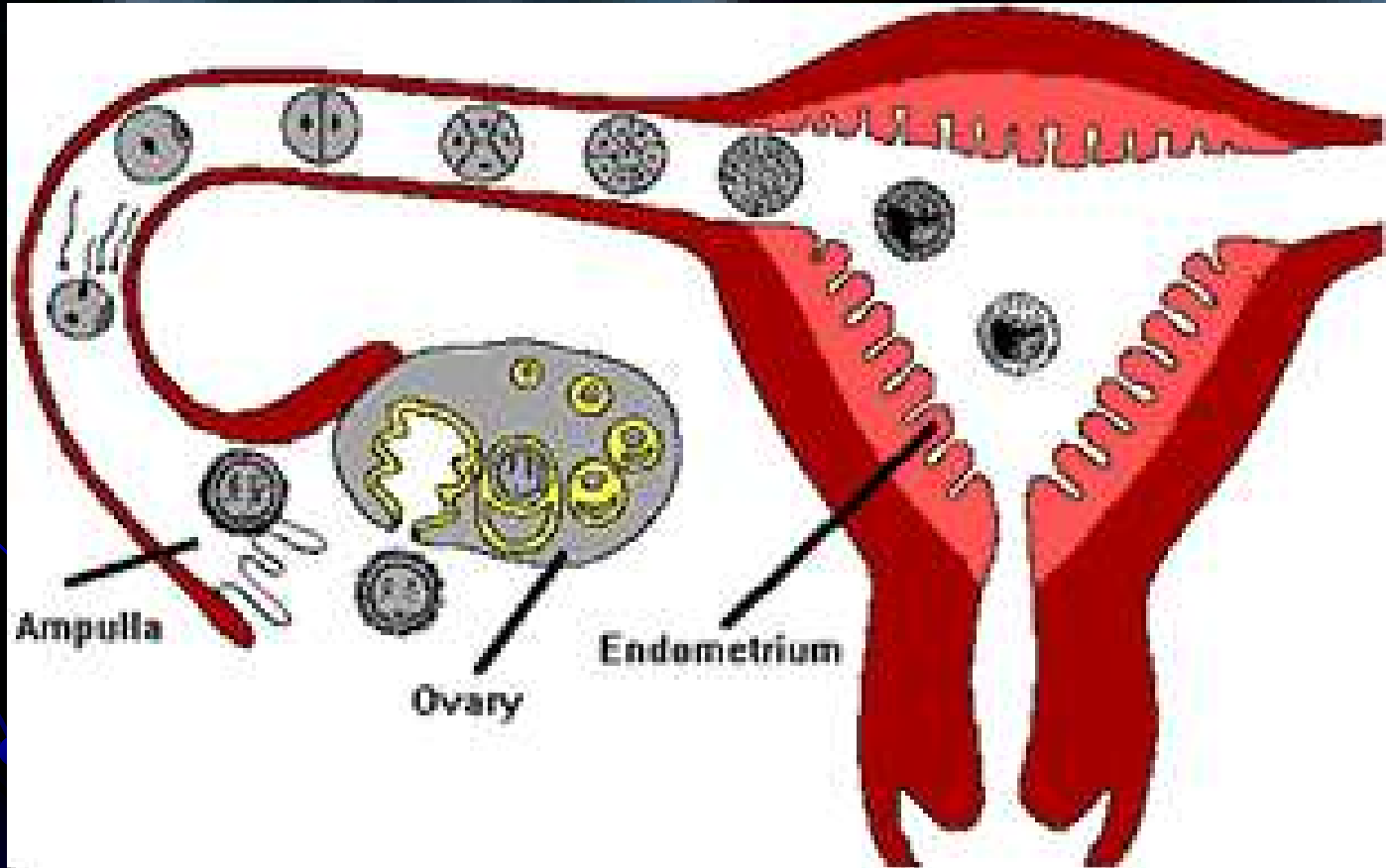
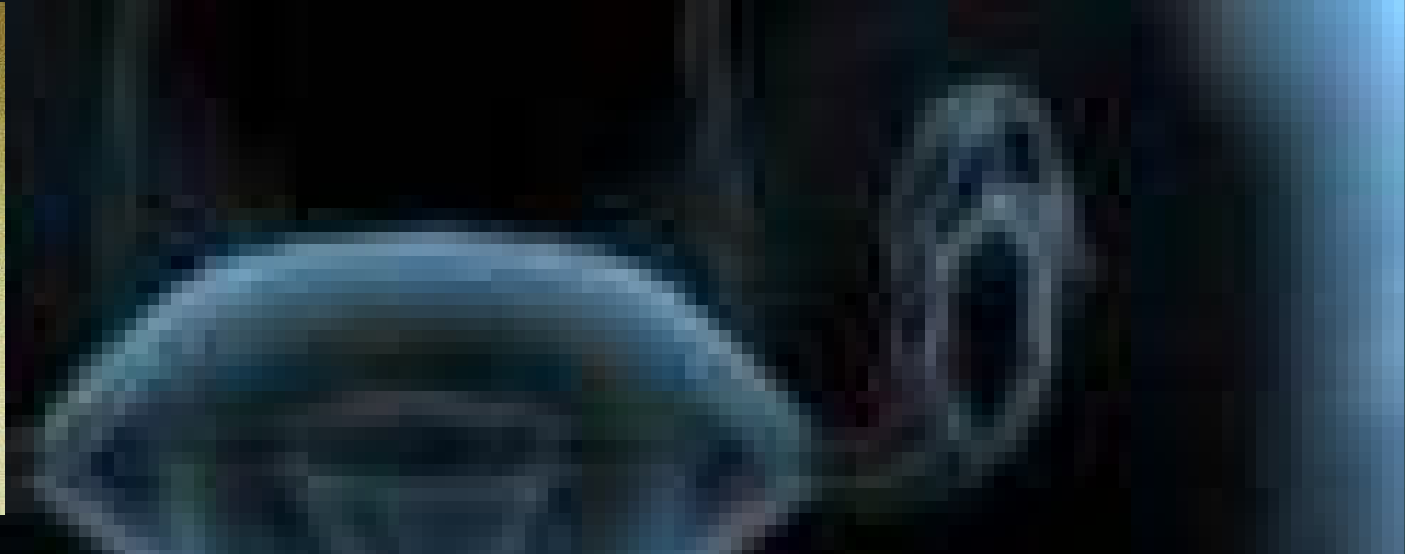
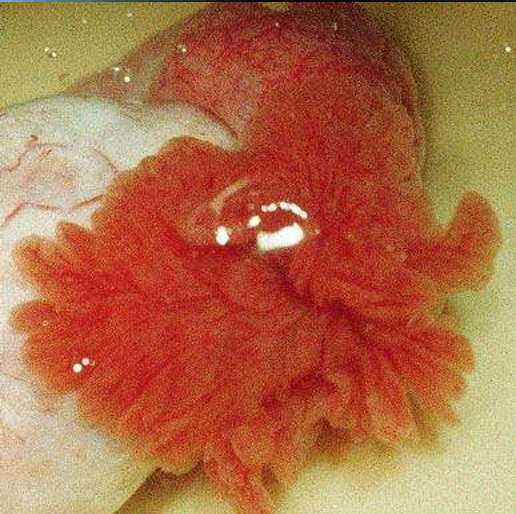
Яєчник (ovarium) і маткові труби (tubae uterinae)

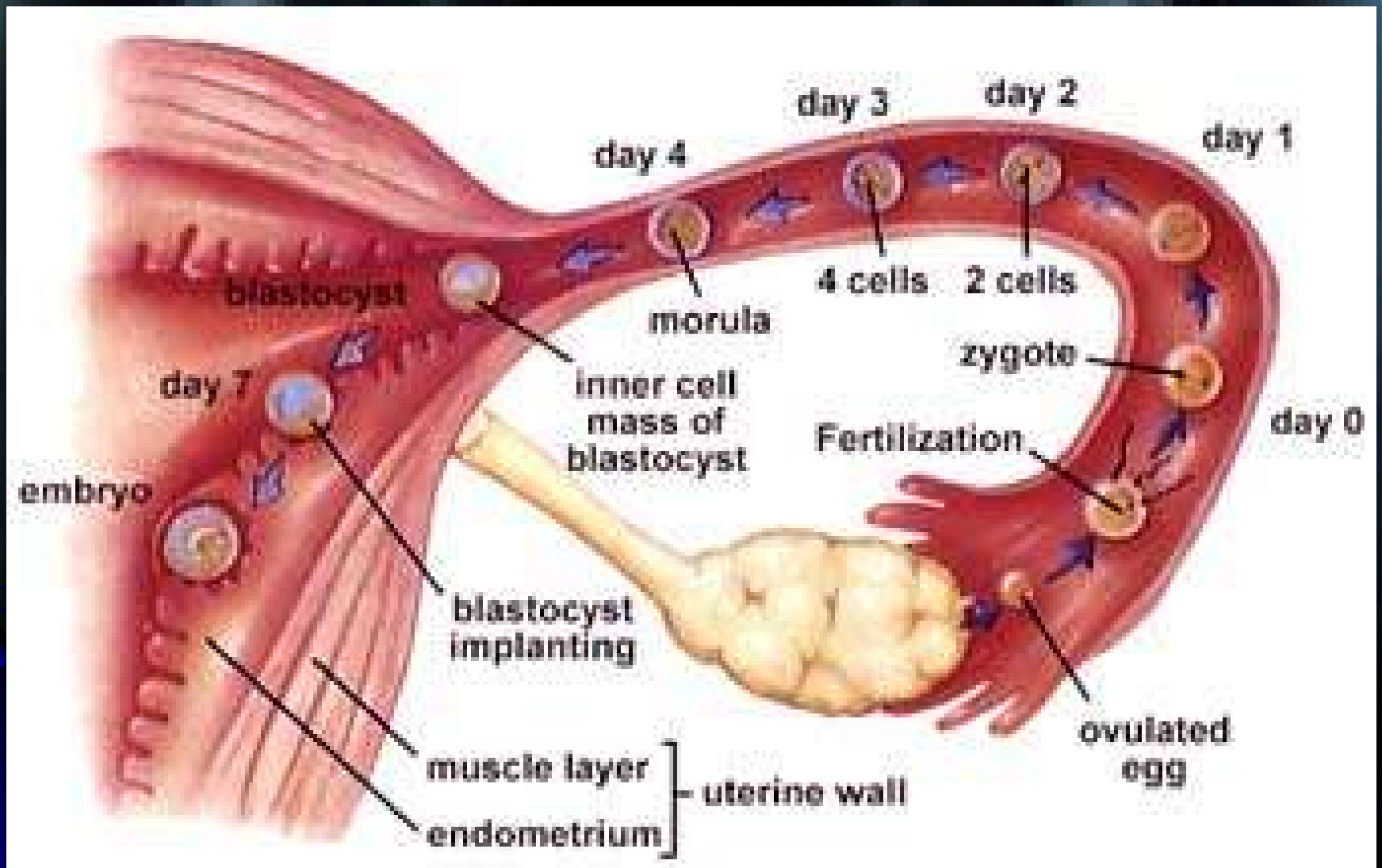
Tuba uterina (salpinx) Маткова труба



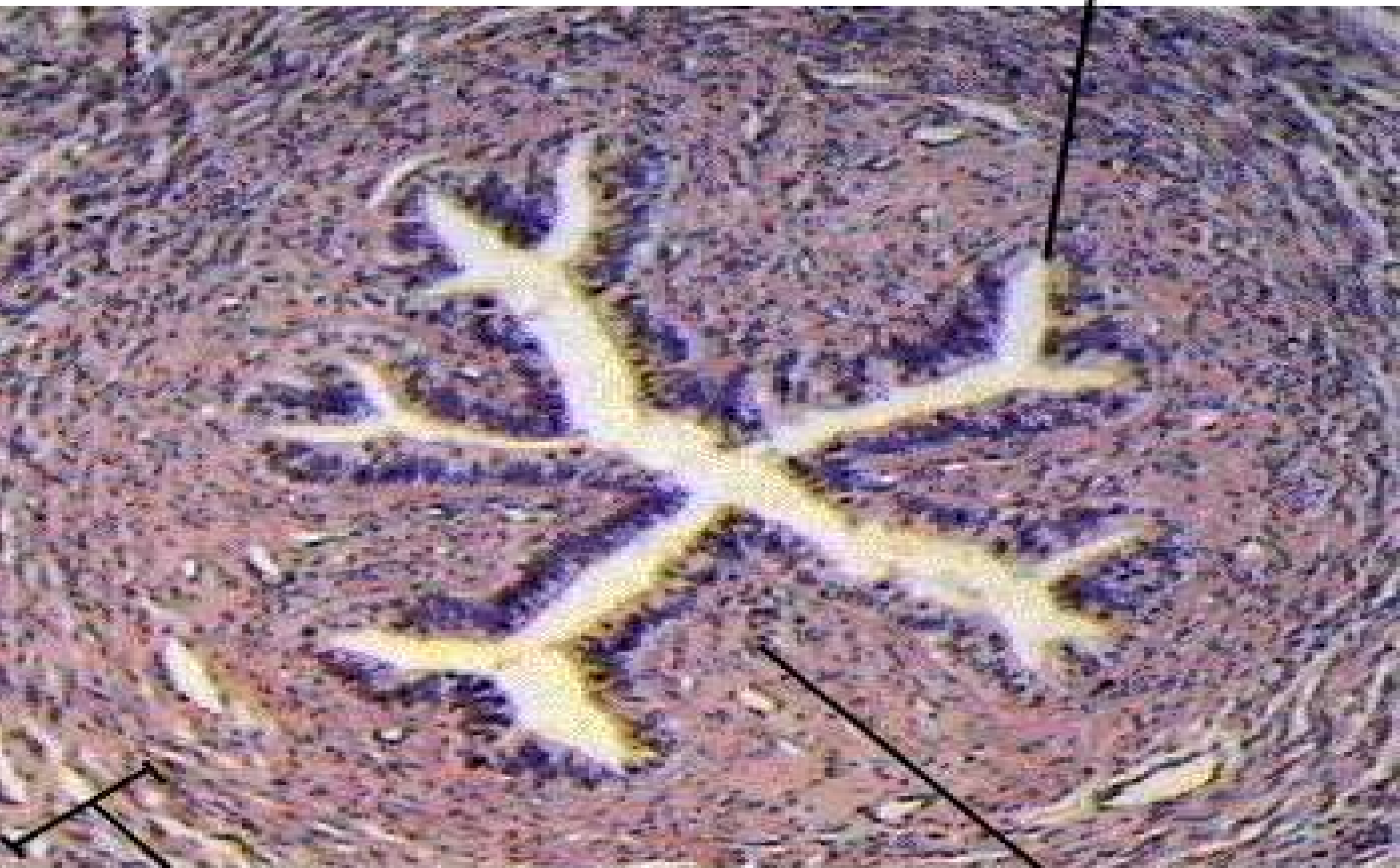
Фронтальний переріз







Columnar epithelium

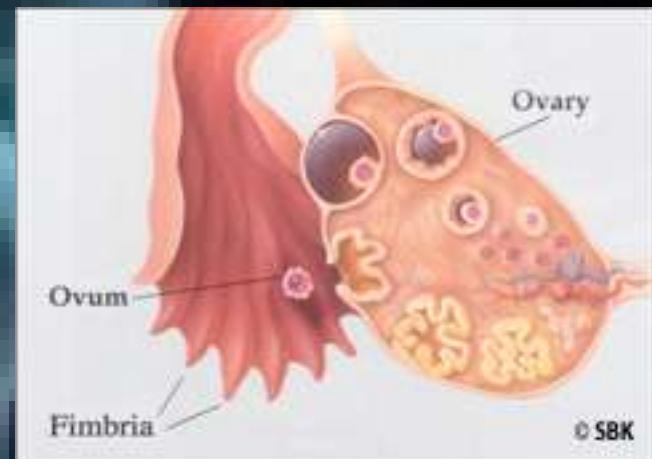


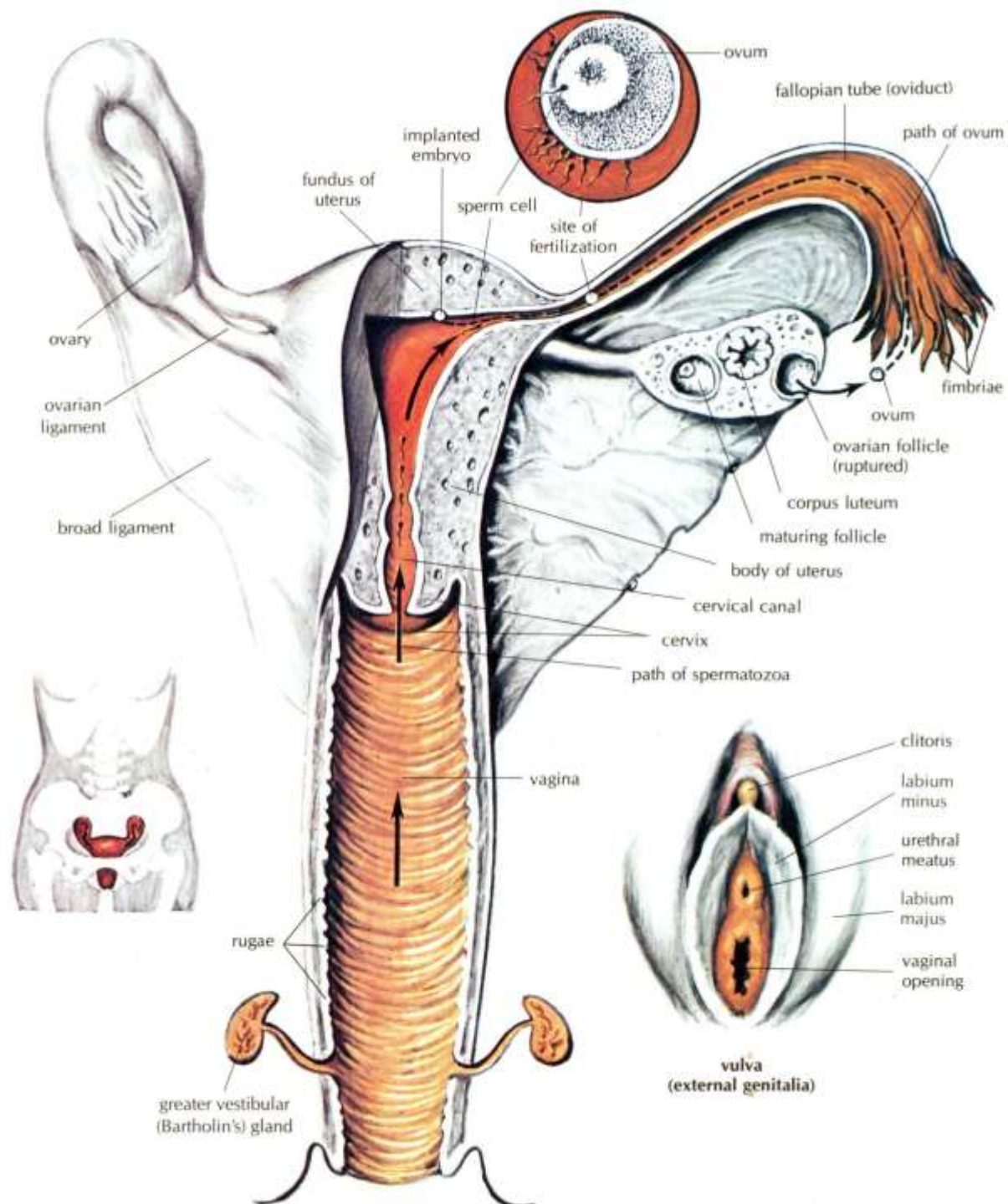
Smooth muscle

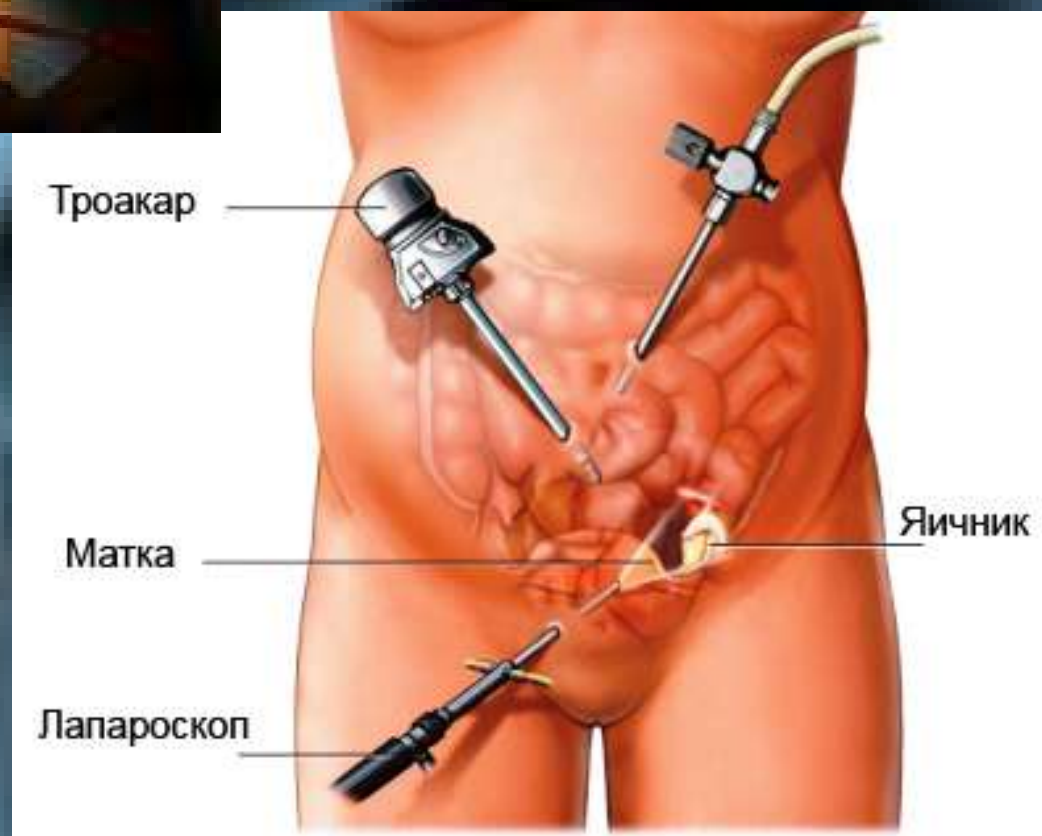
Lamina propria

FIMBRIA

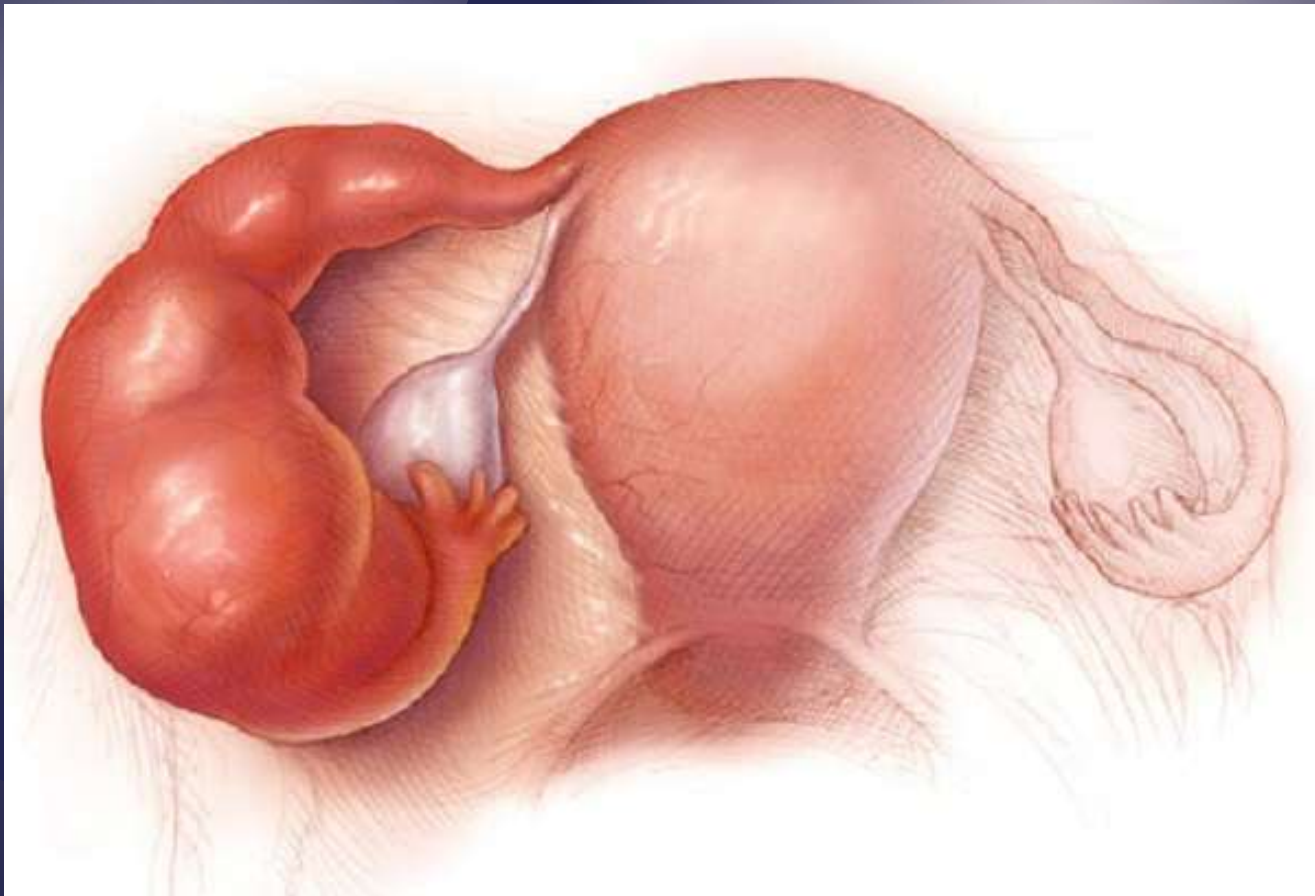
The fimbria is a fringe of tissue near the ovary leading to the Fallopian tubes. When ovulation is to occur, the sex hormones activate the fimbria, causing it to hit the ovary in a gentle, sweeping motion.

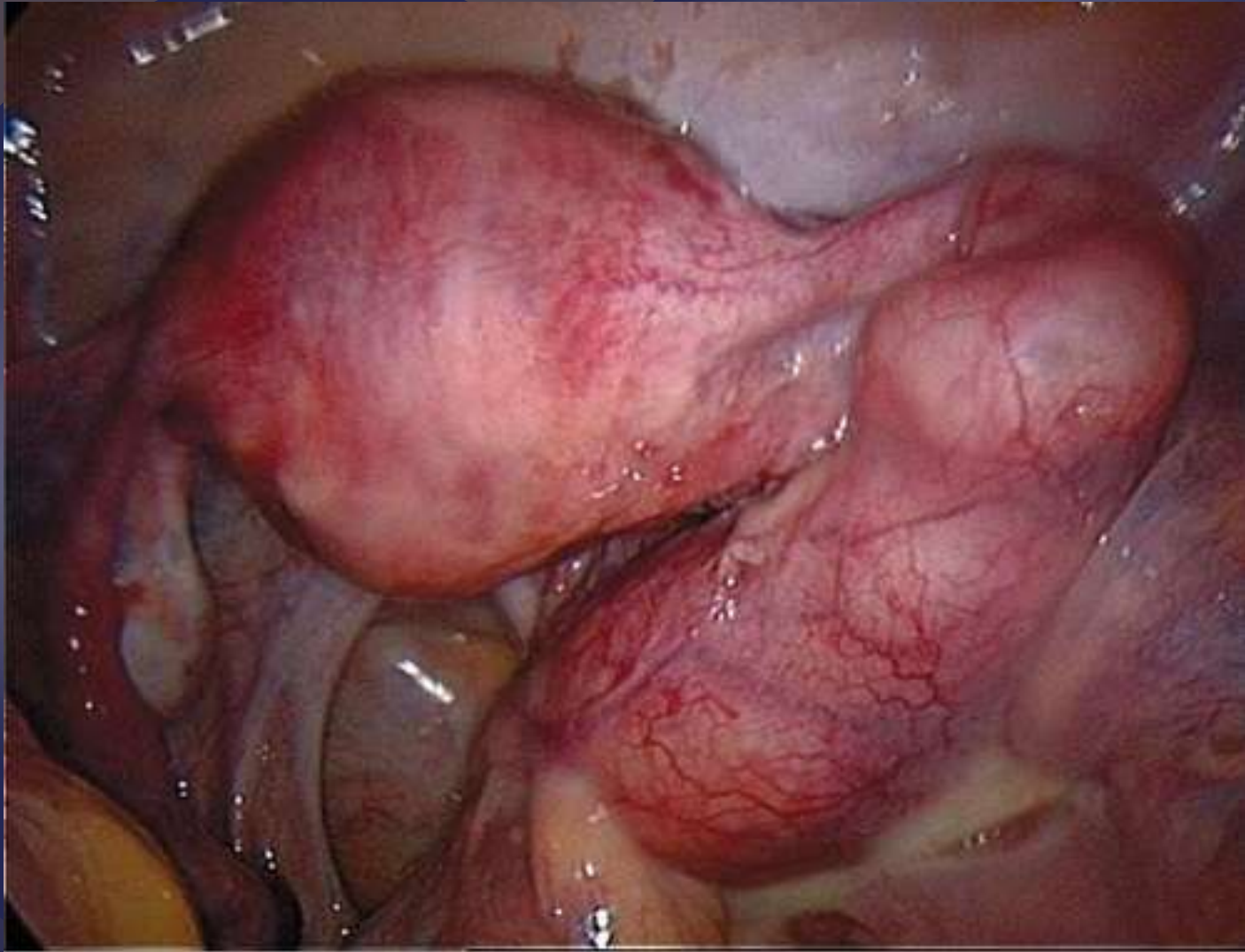






Salpingitis - inflammation of the fallopian tube.

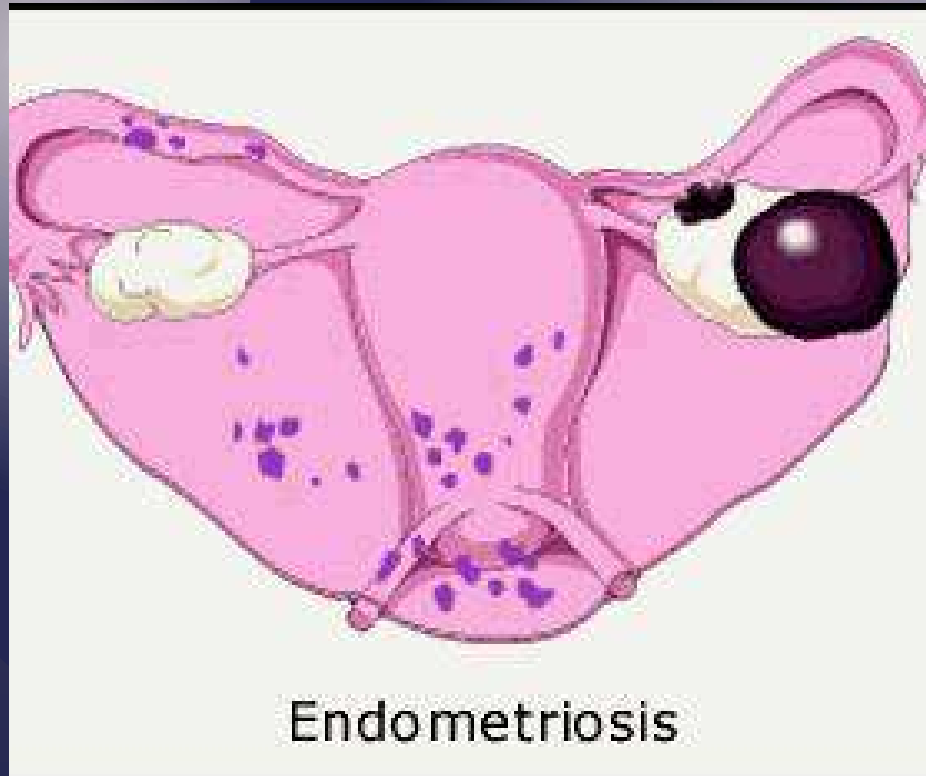




Salpingo - inflammation of the fallopian tubes and ovaries

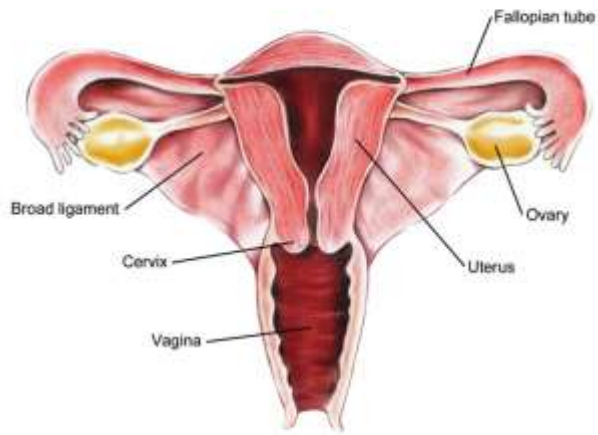


Endometriosis - gynecological disease in which cells of the endometrium (the inner layer of the uterine wall) grow out of this layer.

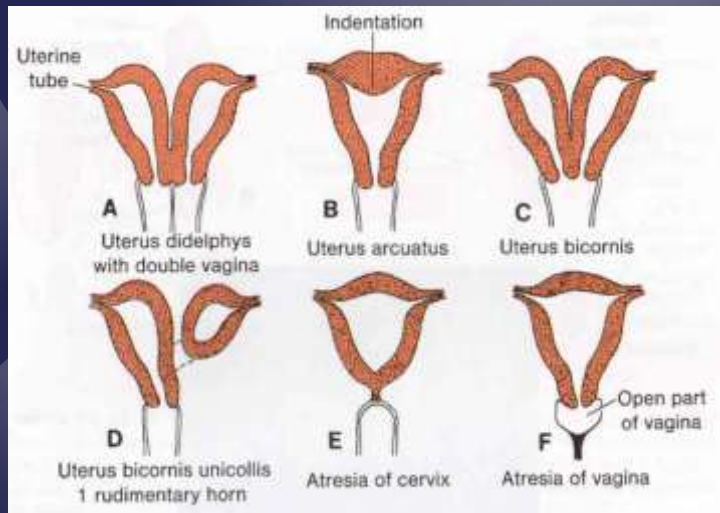


UTERUS

(UTERUS,
s. METRA,
s. HYSTERA,
s. DELFUS)

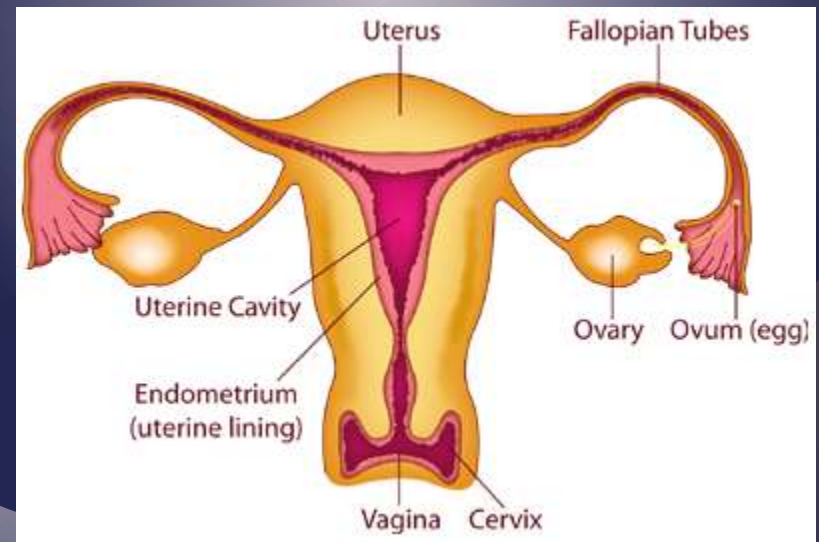


Uterus



Uterus

The main function of the uterus is to accept a fertilized ovum, which becomes implanted into the endometrium, and derives nourishment from blood vessels which develop exclusively for this purpose. The fertilized ovum becomes an embryo, develops into a fetus and gestates until childbirth. Due to anatomical barriers such as the pelvis, the uterus is pushed partially into the abdomen due to its expansion during pregnancy. Even in pregnancy the mass of a human uterus amounts to only about a kilogram .



- ⌘ Womb
- ⌘ Located in the pelvis between the urinary bladder and the rectum
- ⌘ Receives, retains and nourishes the fertilized egg
- ⌘ The major portion is the body

Uterus

- ⌘ Superior rounded region above the entrance of the uterine tubes is the fundus
- ⌘ Narrow outlet that protrudes into the vagina below is the cervix

Uterus

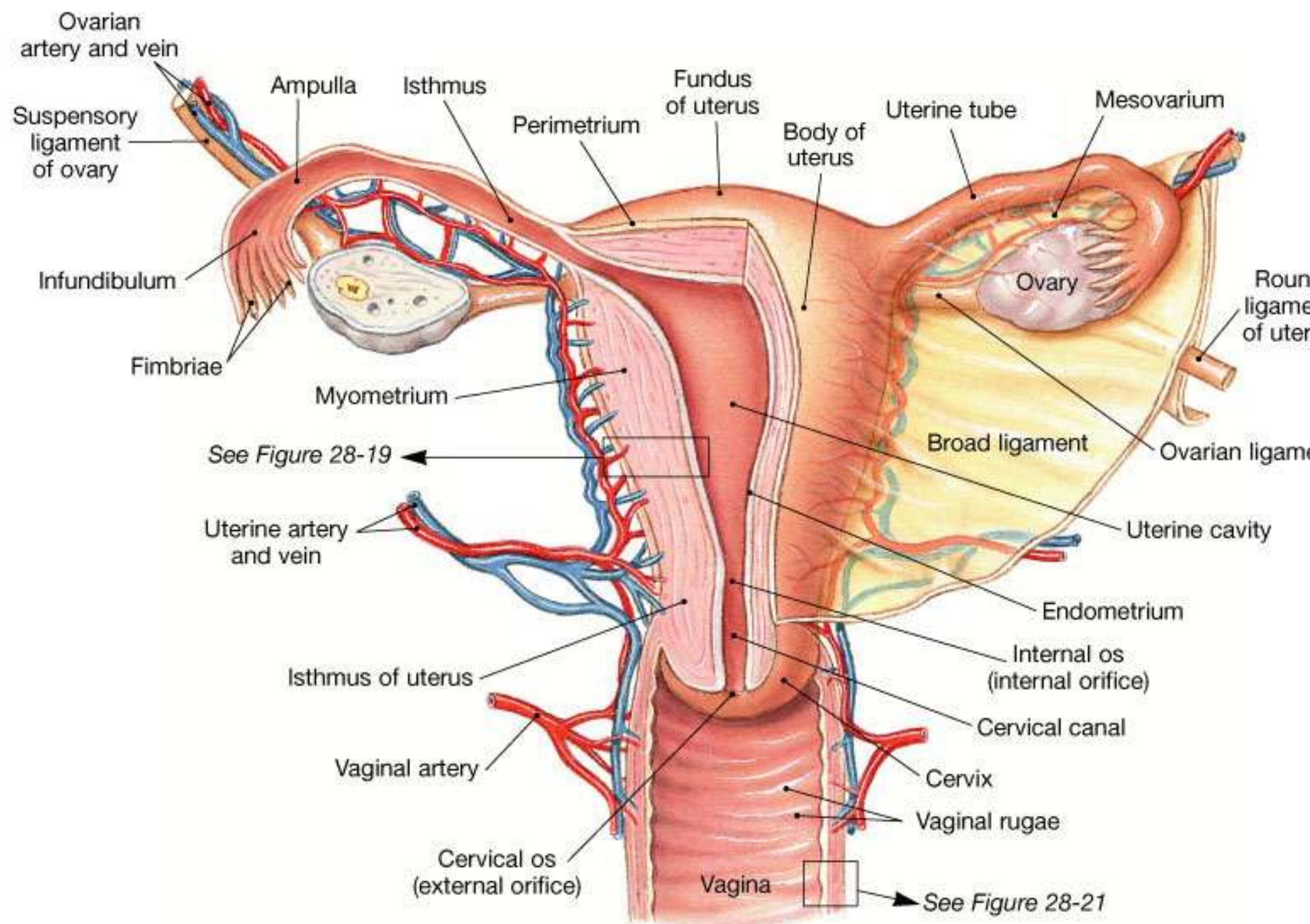
The Uterus

- Muscular organ
 - Mechanical protection
 - Nutritional support
 - Waste removal for the developing embryo and fetus
- Supported by the broad ligament and 3 pairs of suspensory ligaments

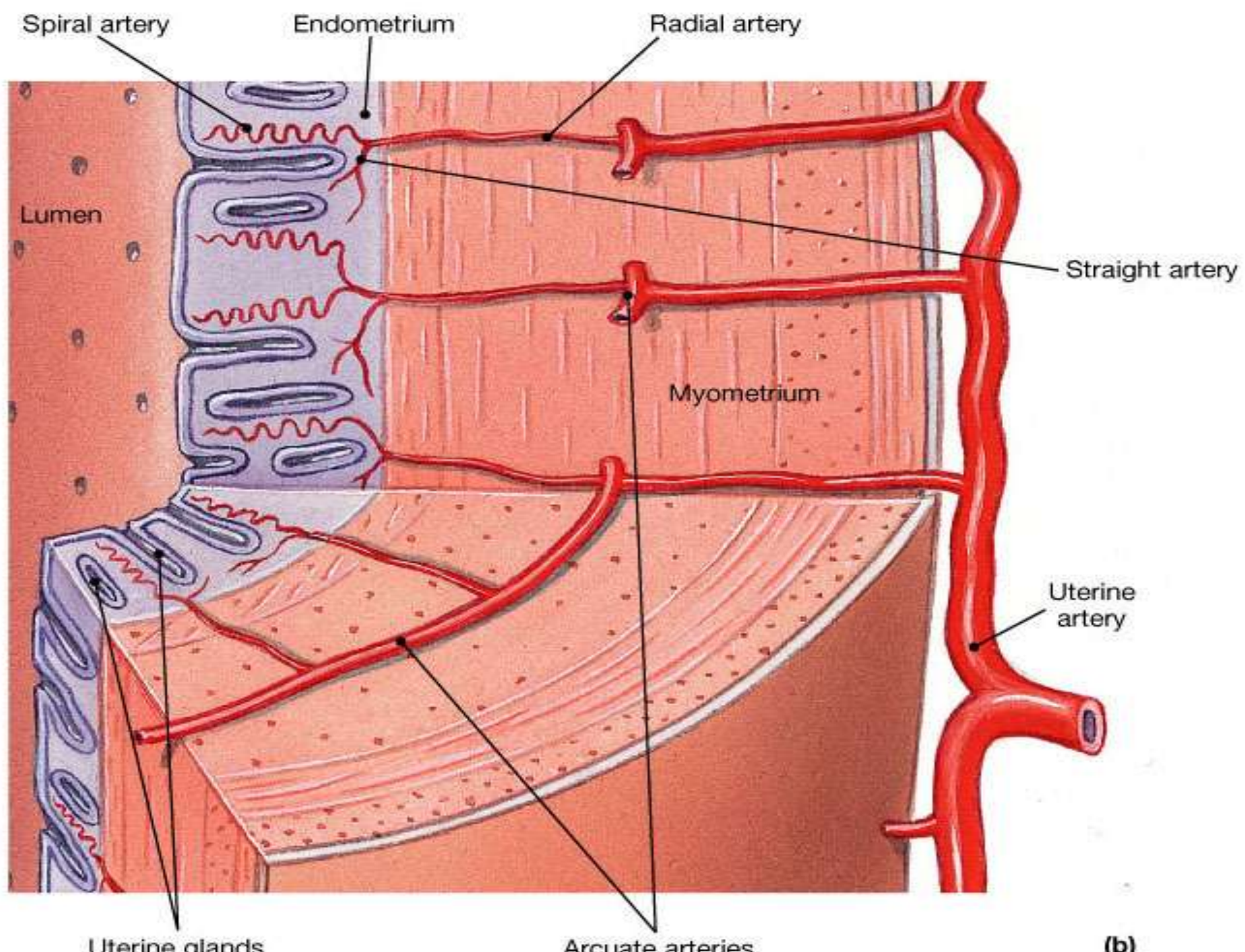
Uterine Wall Consists of 3 Layers:

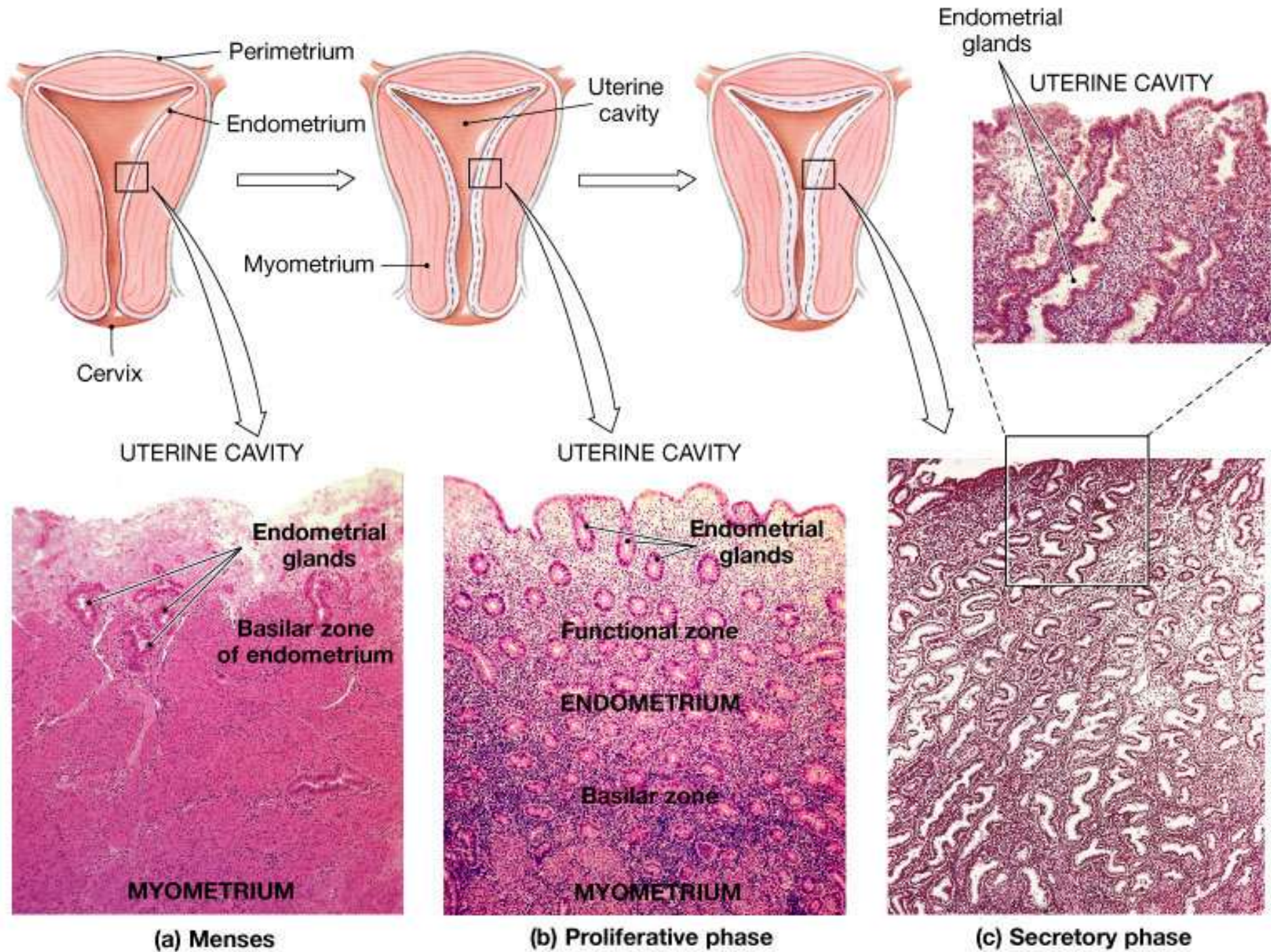
- Myometrium – outer muscular layer
- Endometrium – a thin, inner, glandular mucosa
- Perimetrium – an incomplete serosa continuous with the peritoneum
- The site of implantation of developing embryo
- **And 3 parts:** fundus, body, and cervix

Anatomically, the uterus occupies a central position in the reproductive system WOMEN BUT ITS DEVELOPMENT AND FUNCTIONAL STATUS depends on hormonal ovarian function. DECISION PROVIDES uterus fertilized eggs, embryos POWER PROTECTION AND THAT DEVELOPED AND OUTPUT OF THE BODY ripe fruit. The first two functions associated with mucous membranes, and the last - with muscle of the uterus.

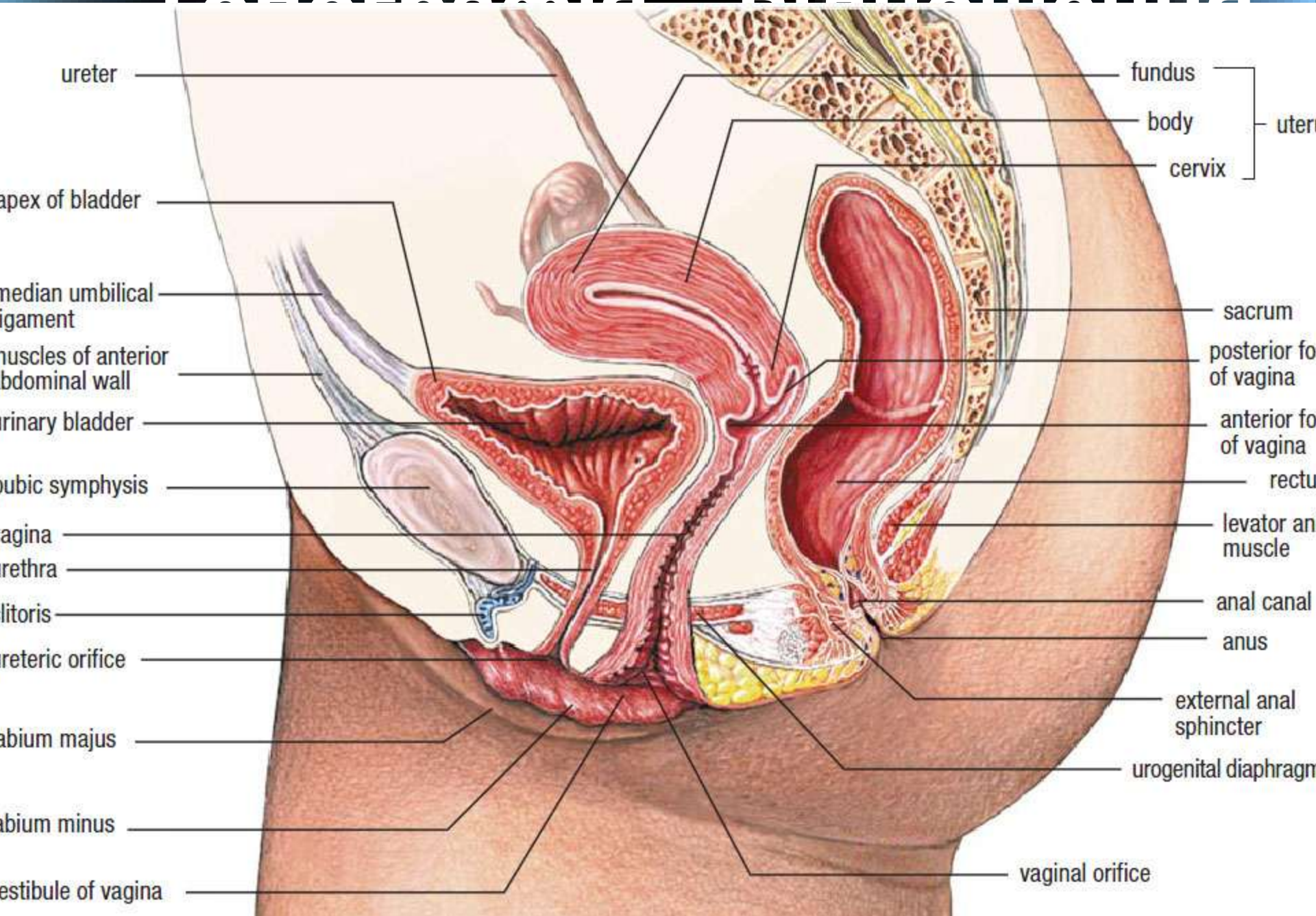


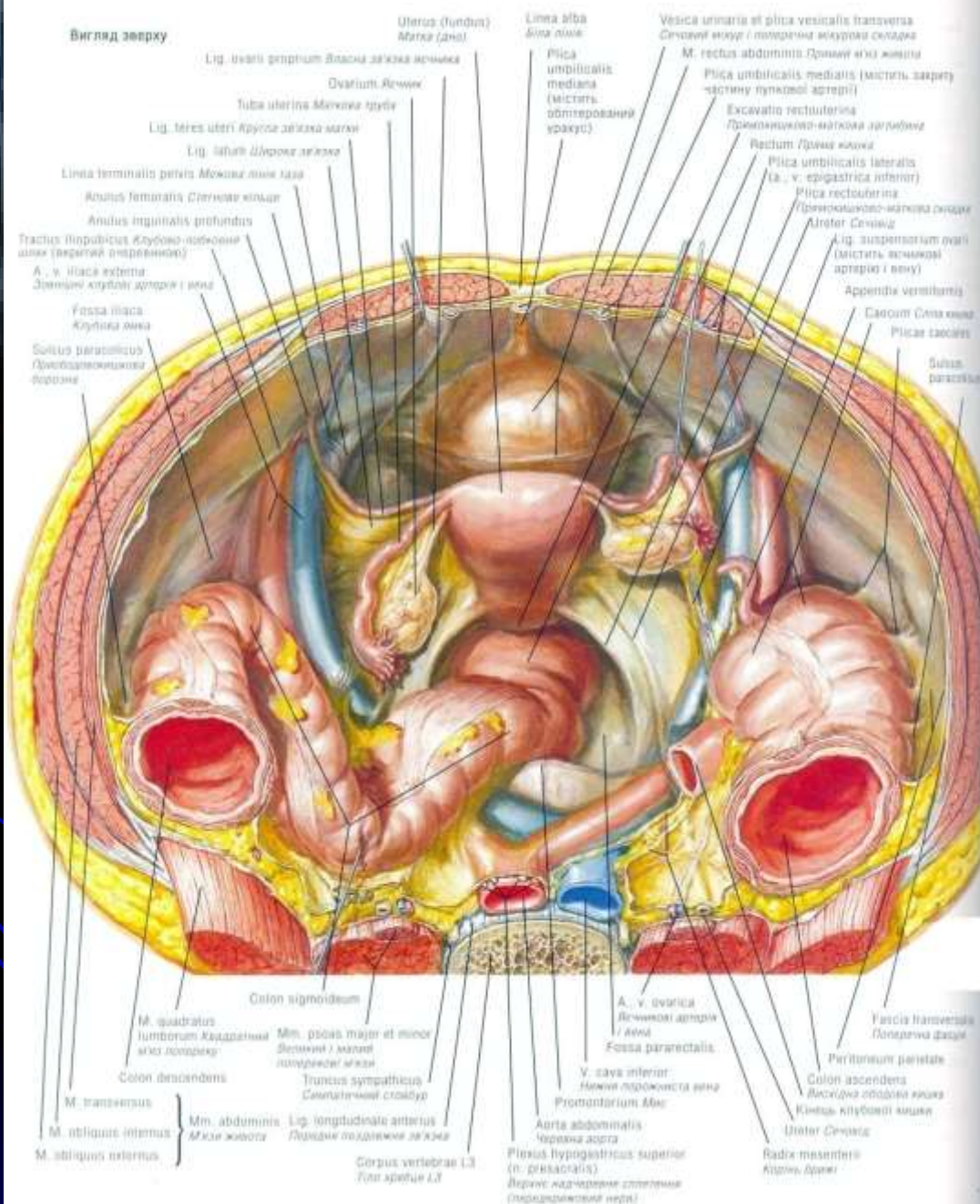
(c) Posterior view



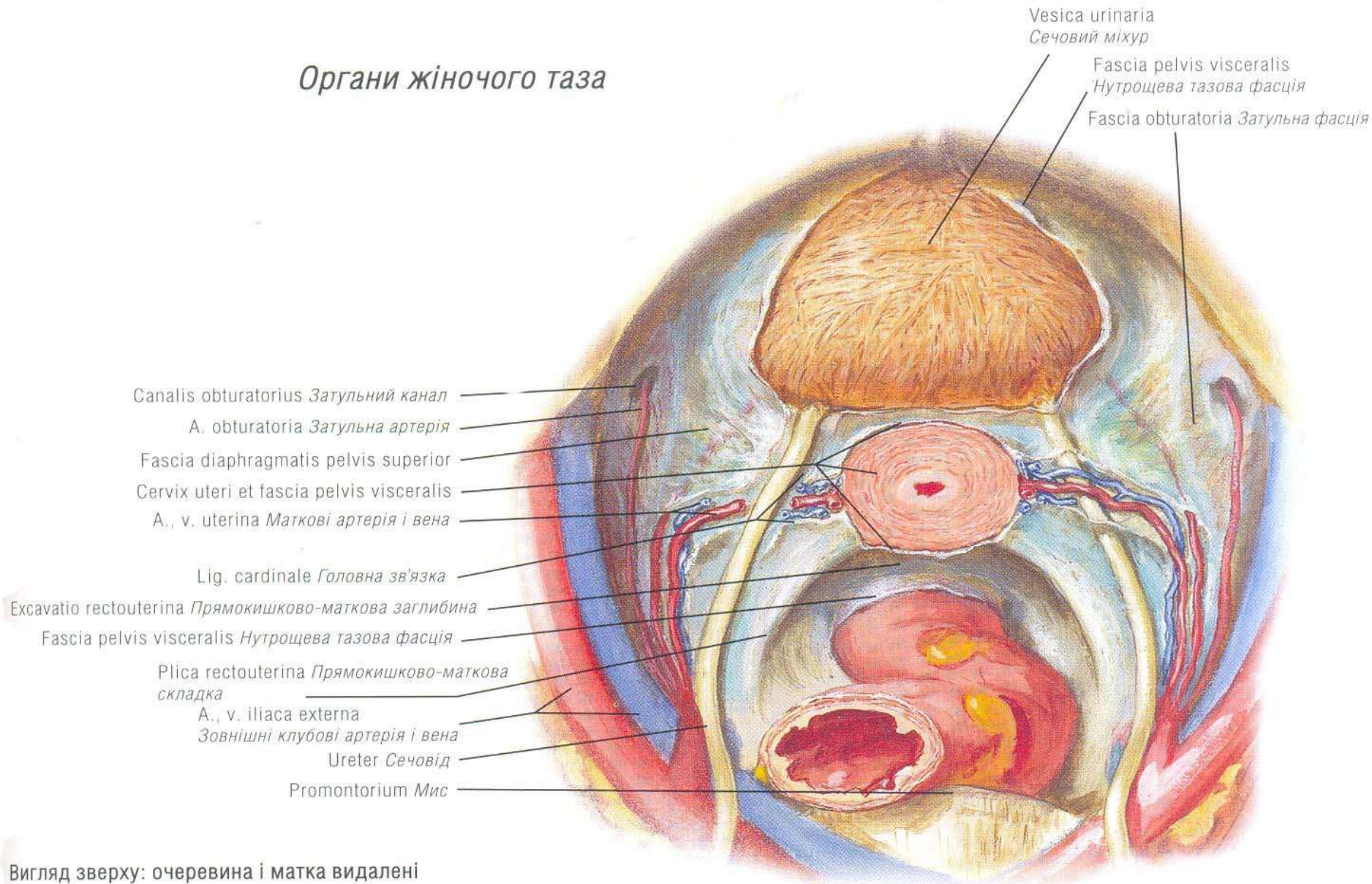


Female reproductive system





Органи жіночого таза



Вигляд зверху: очеревина і матка видалені

Матка (uterus): організація міометрію

Lig. ovarii proprium
Власна зв'язка
яєчника

Tuba uterina
(salpinx)
Маткова труба

Lig. teres uteri
Кругла зв'язка матки

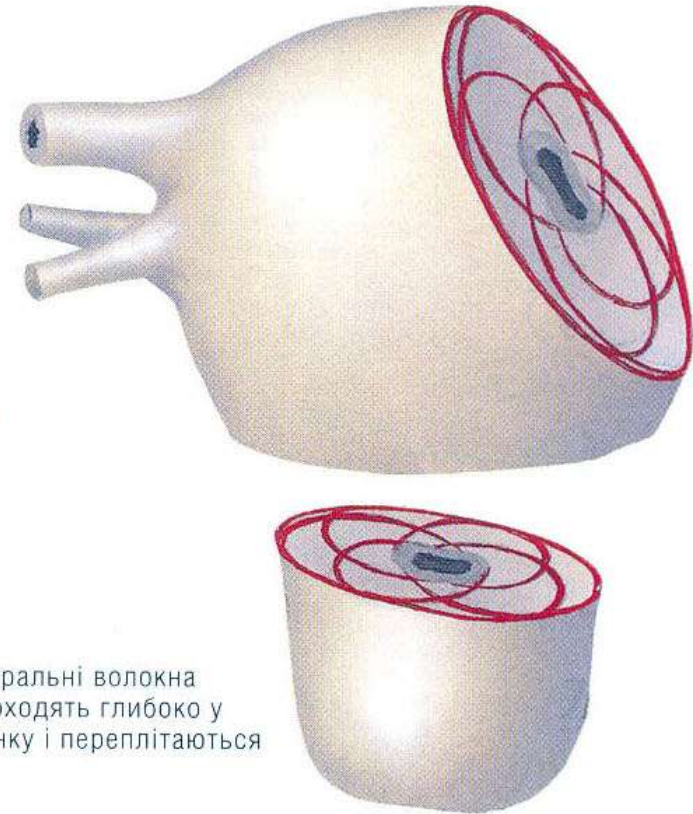
Lig. sacrouterinum
Крижово-маткова зв'язка

Lig. cardinale
Головна
зв'язка

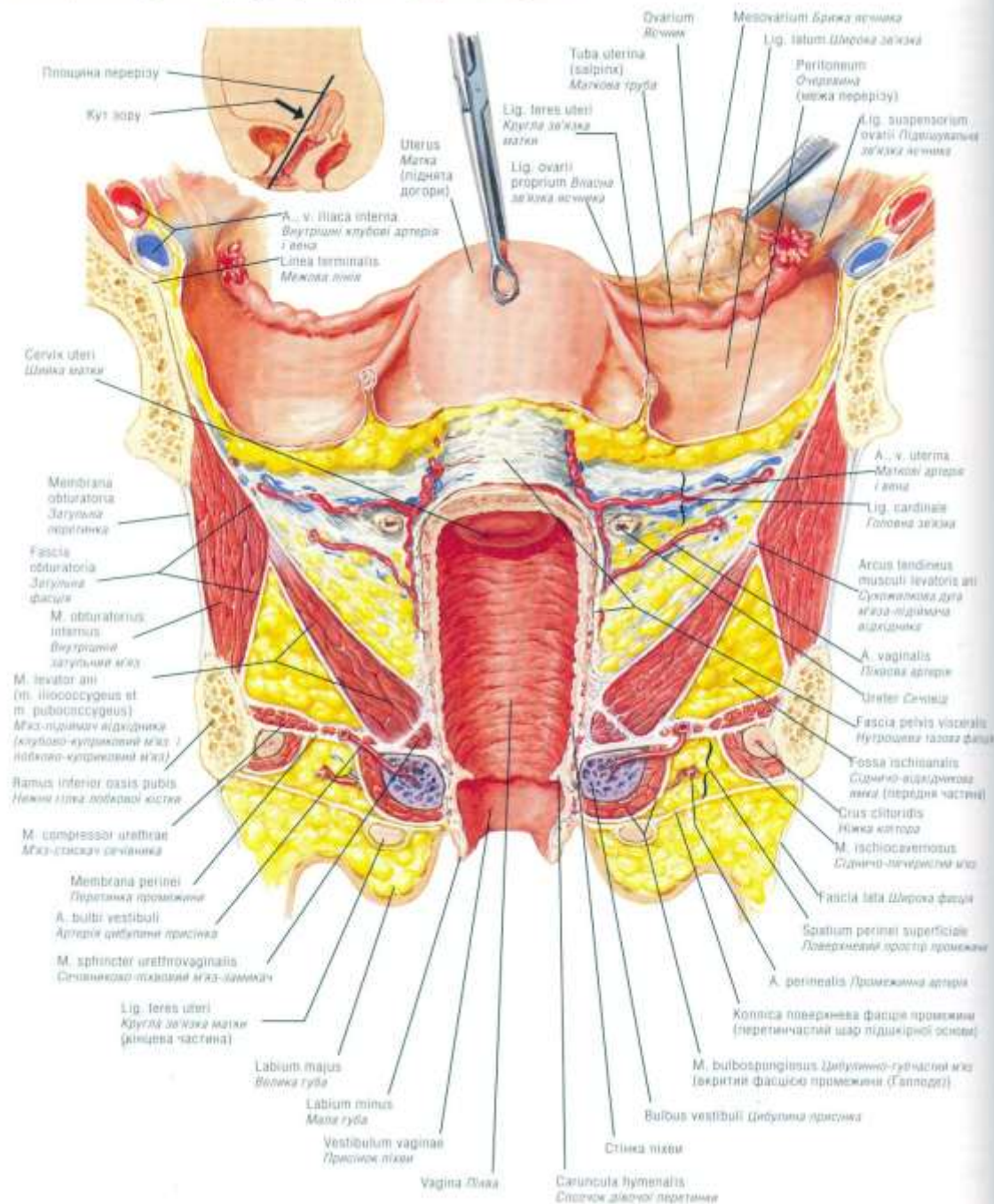
Стінка піхви

Схема
мускулатури
матки

Спіральні волокна
проходять глибоко у
стінку і переплітаються

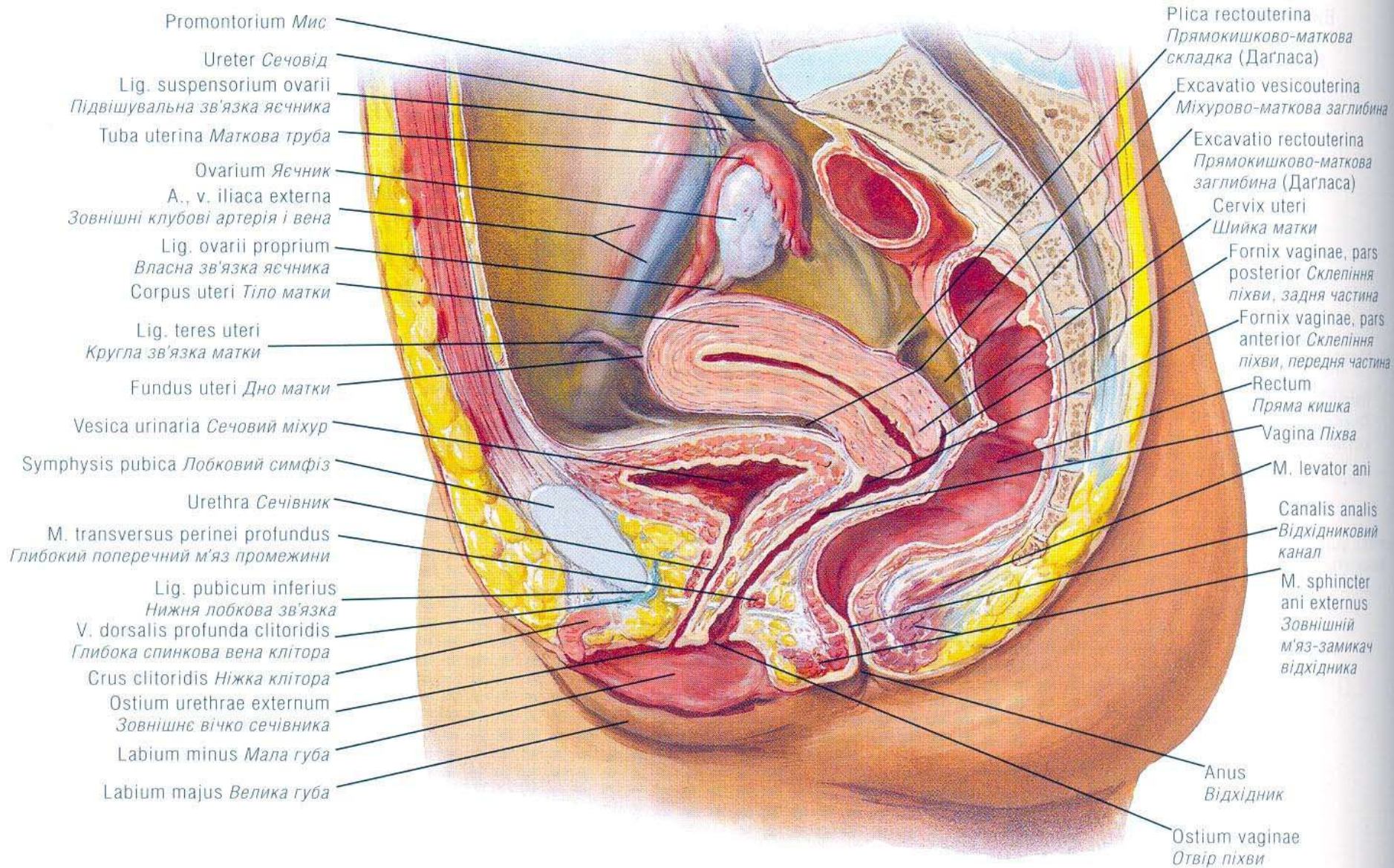


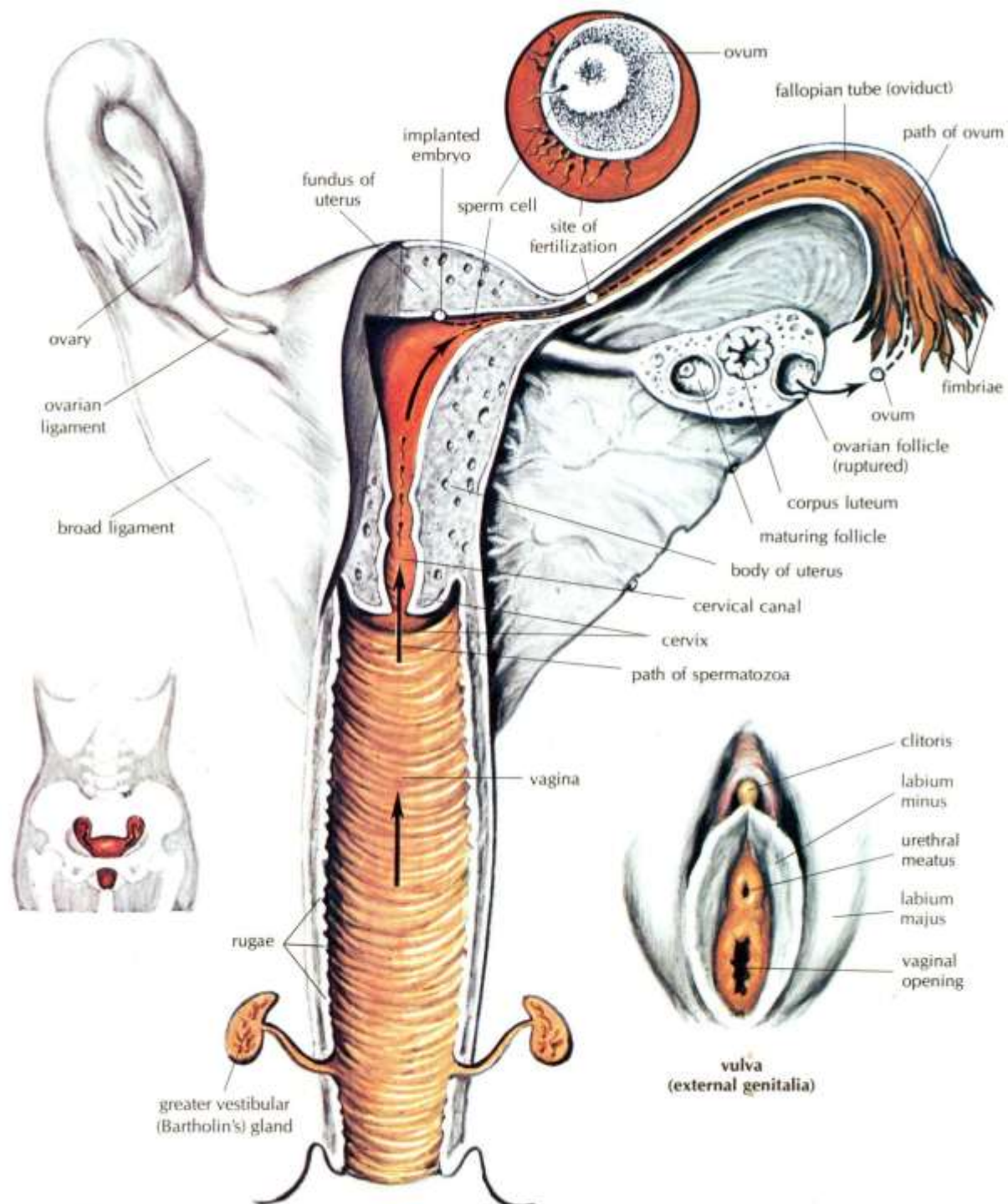
Матка (uterus), піхва (vagina) й органи, що їх оточують

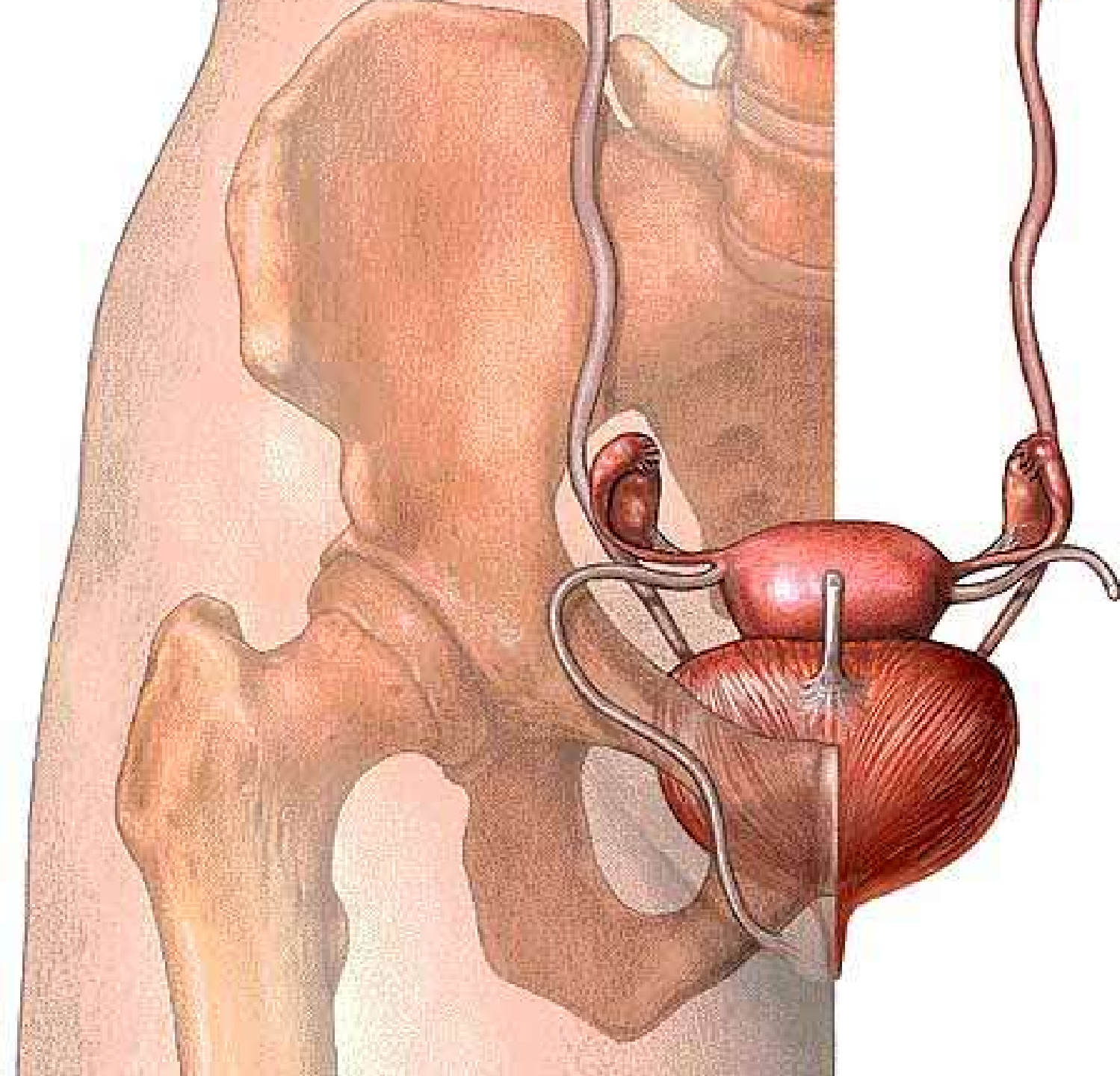


Органи жіночого таза і промежина

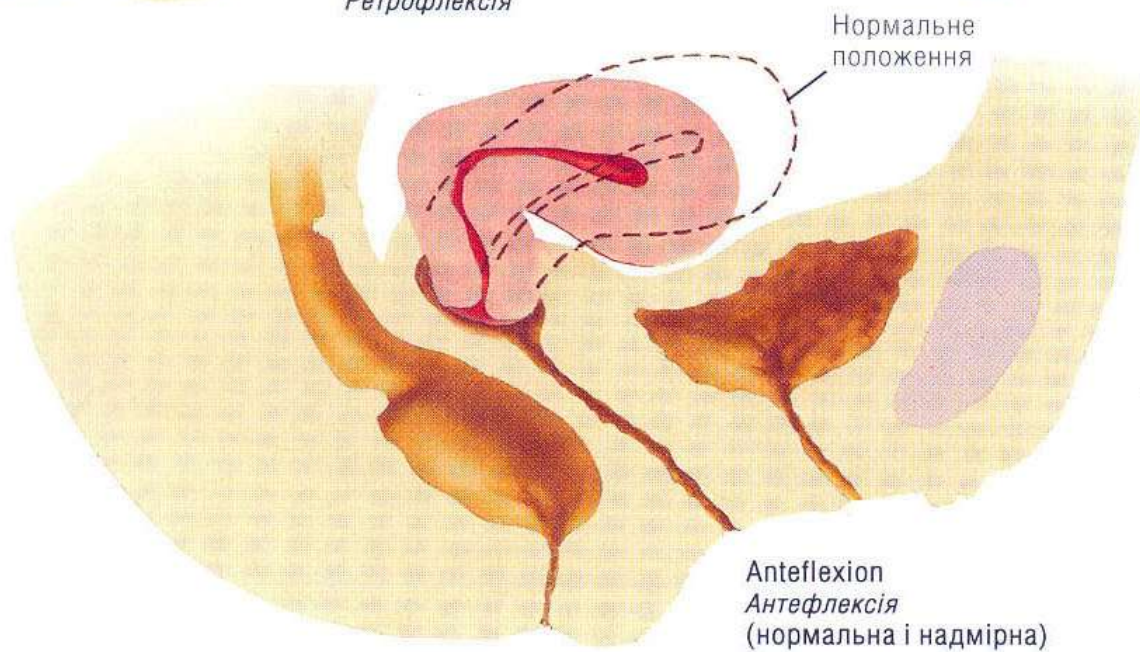
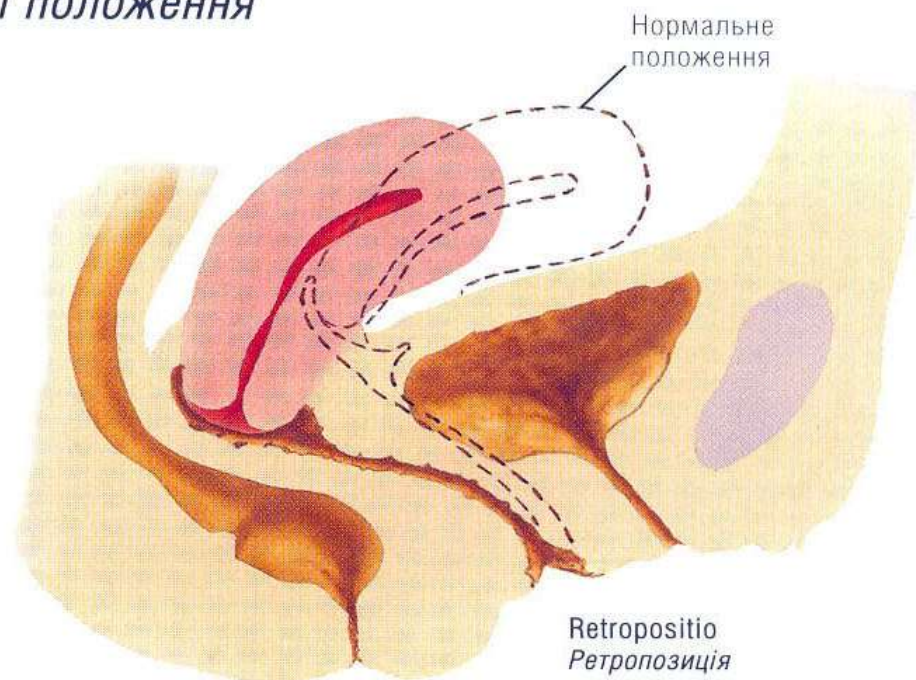
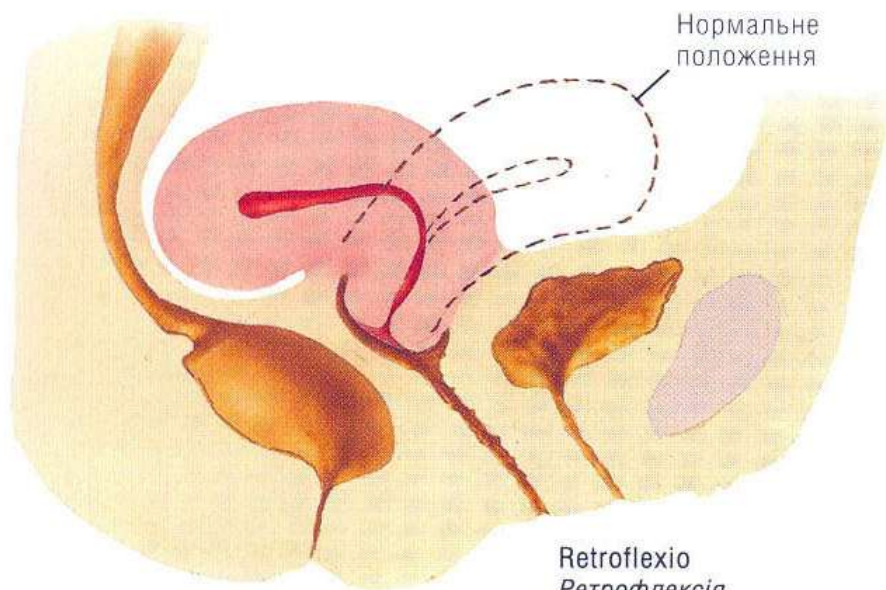
Серединний (сагітальний) переріз







Матка (uterus): варіанти і положення



Матка (uterus): вікові зміни



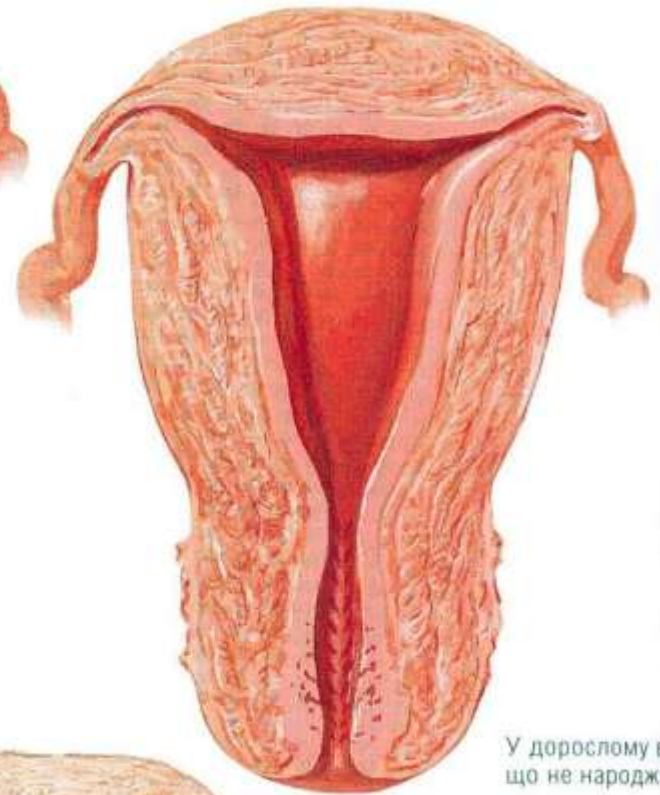
При народженні



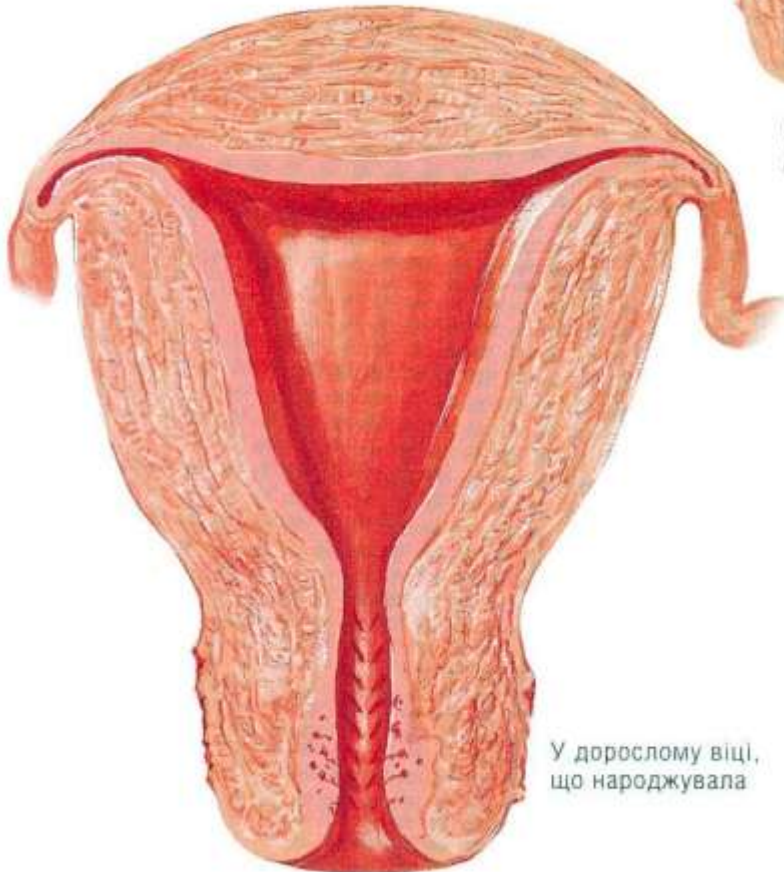
4 роки



Період статевого
дозрівання



У дорослому віці,
що не народжувала



У дорослому віці,
що народжувала

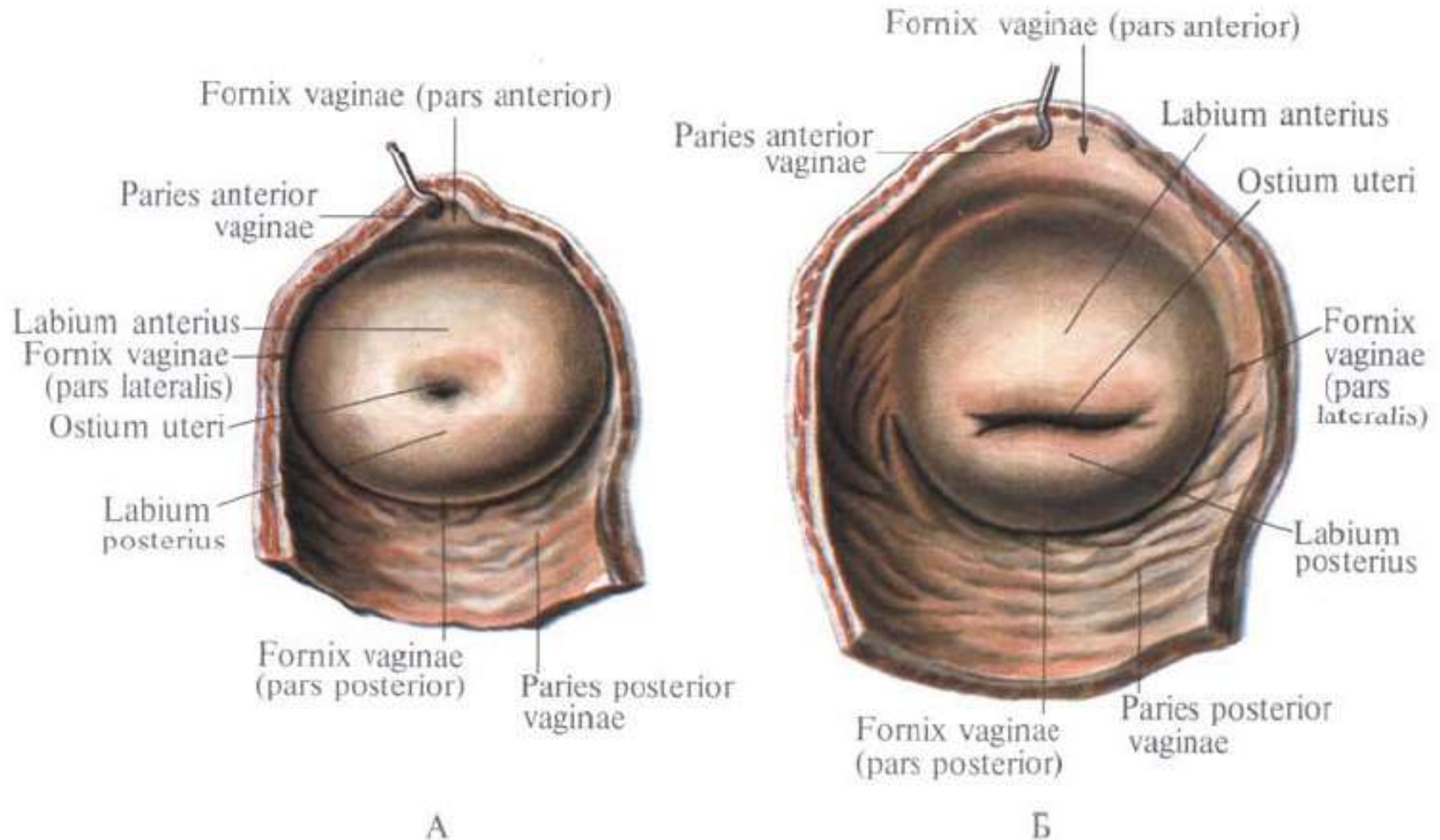


У дорослому віці
(після менопаузи)

Скелєпіння пїхви жїнки:

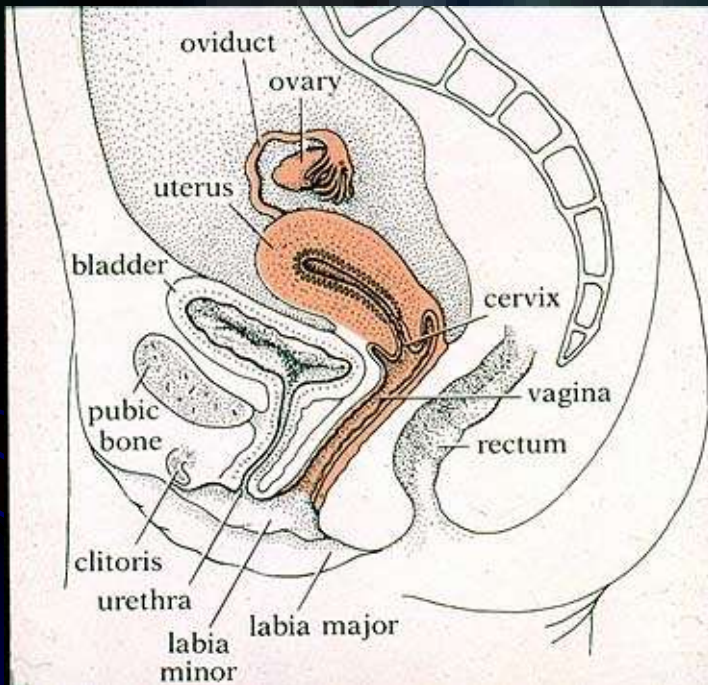
А – жїнка, яка не народжувала;

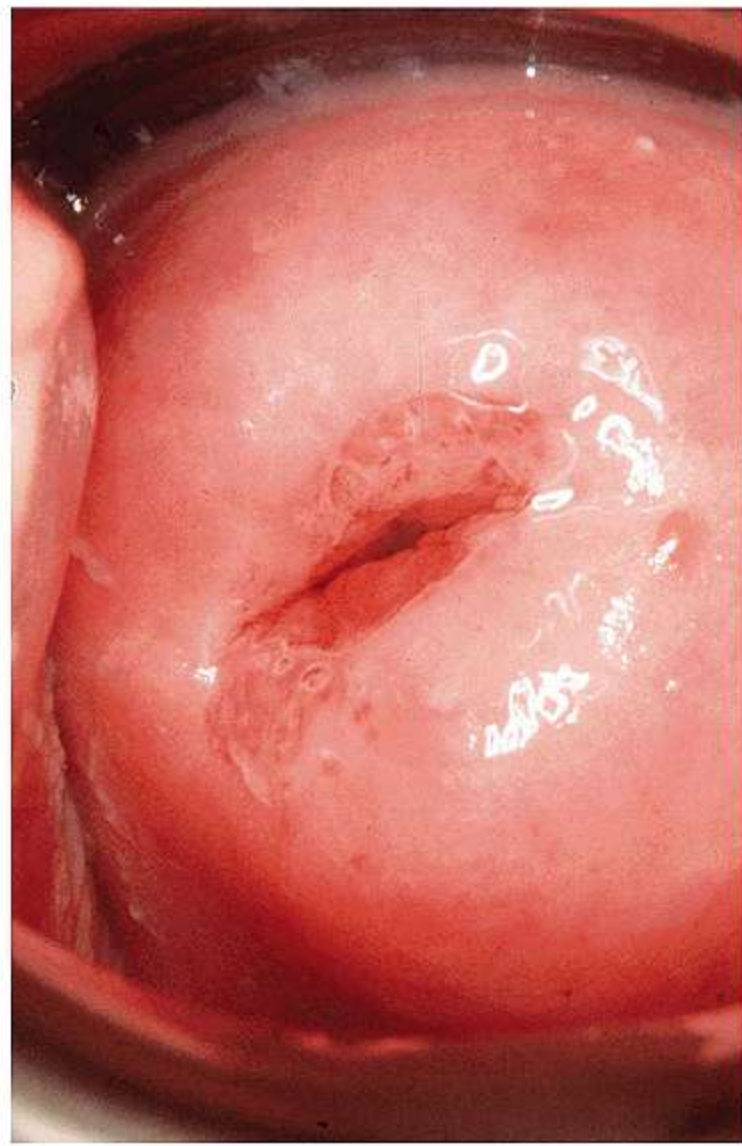
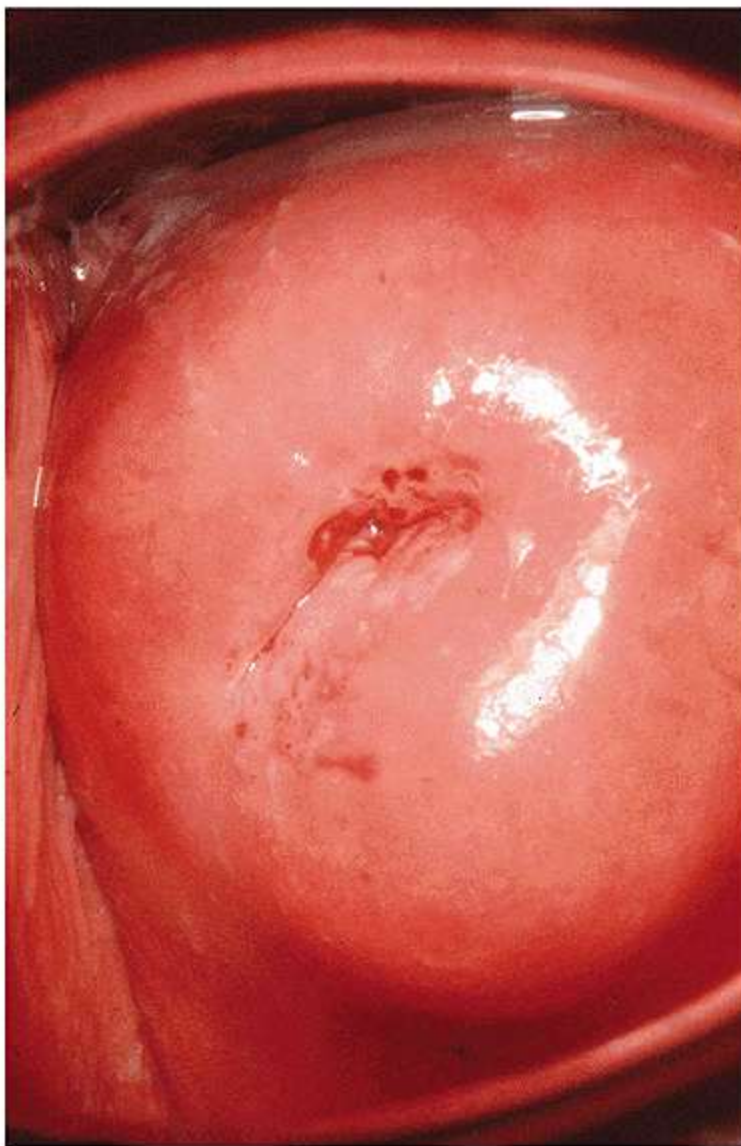
Б – жїнка, яка народжувала



CERVIX

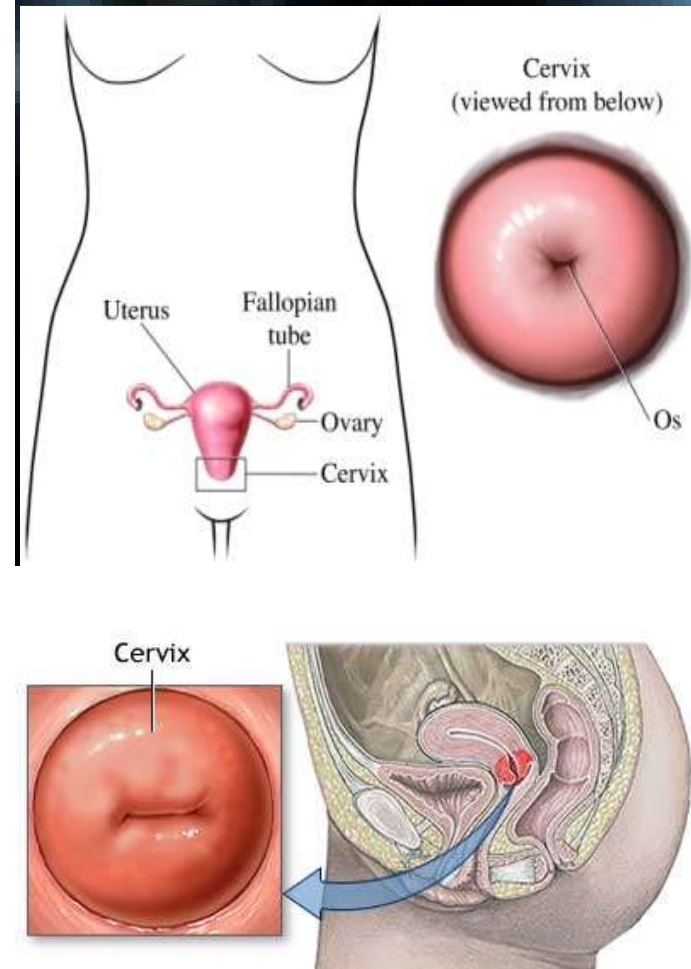
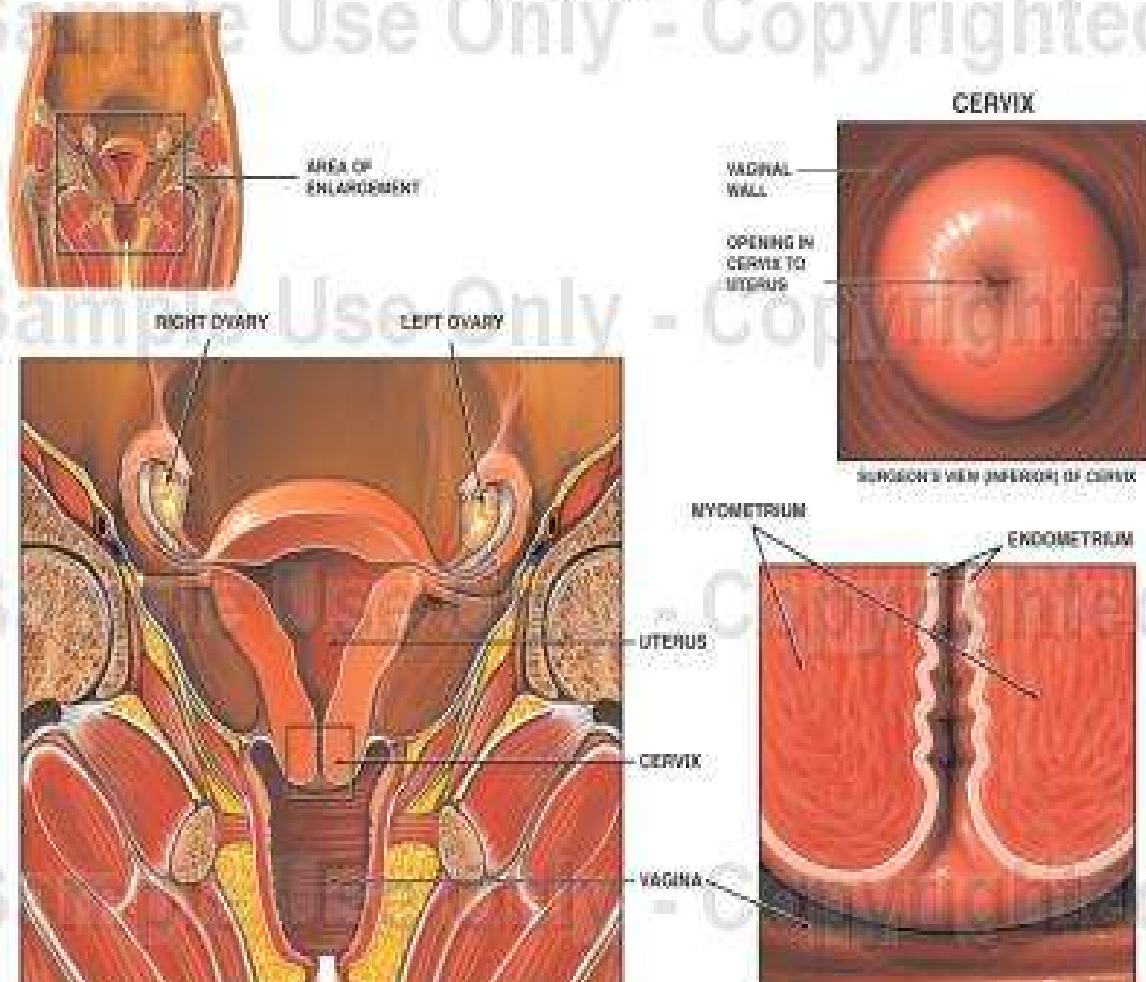
The opening from the vagina into the womb allows menstrual blood exit and sperm in.

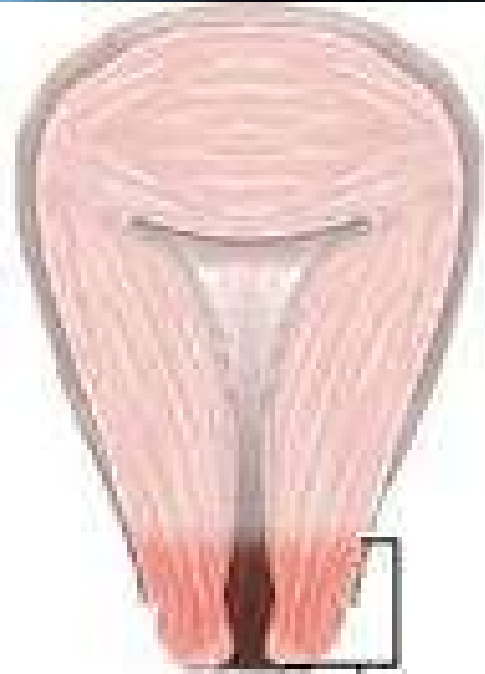




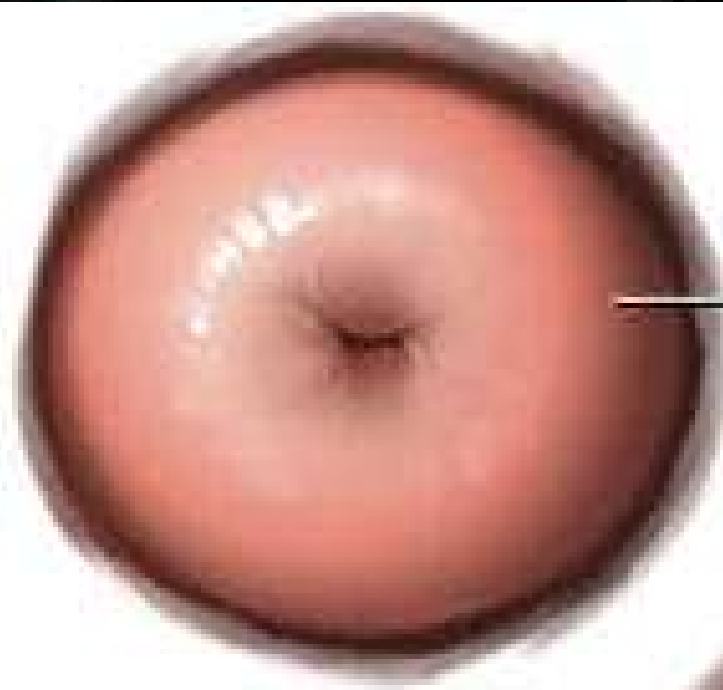
Cervix

Anatomy of the Cervix





Cervix
(front view)



Healthy cervix
(viewed from
below)



Cervix with
carcinoma

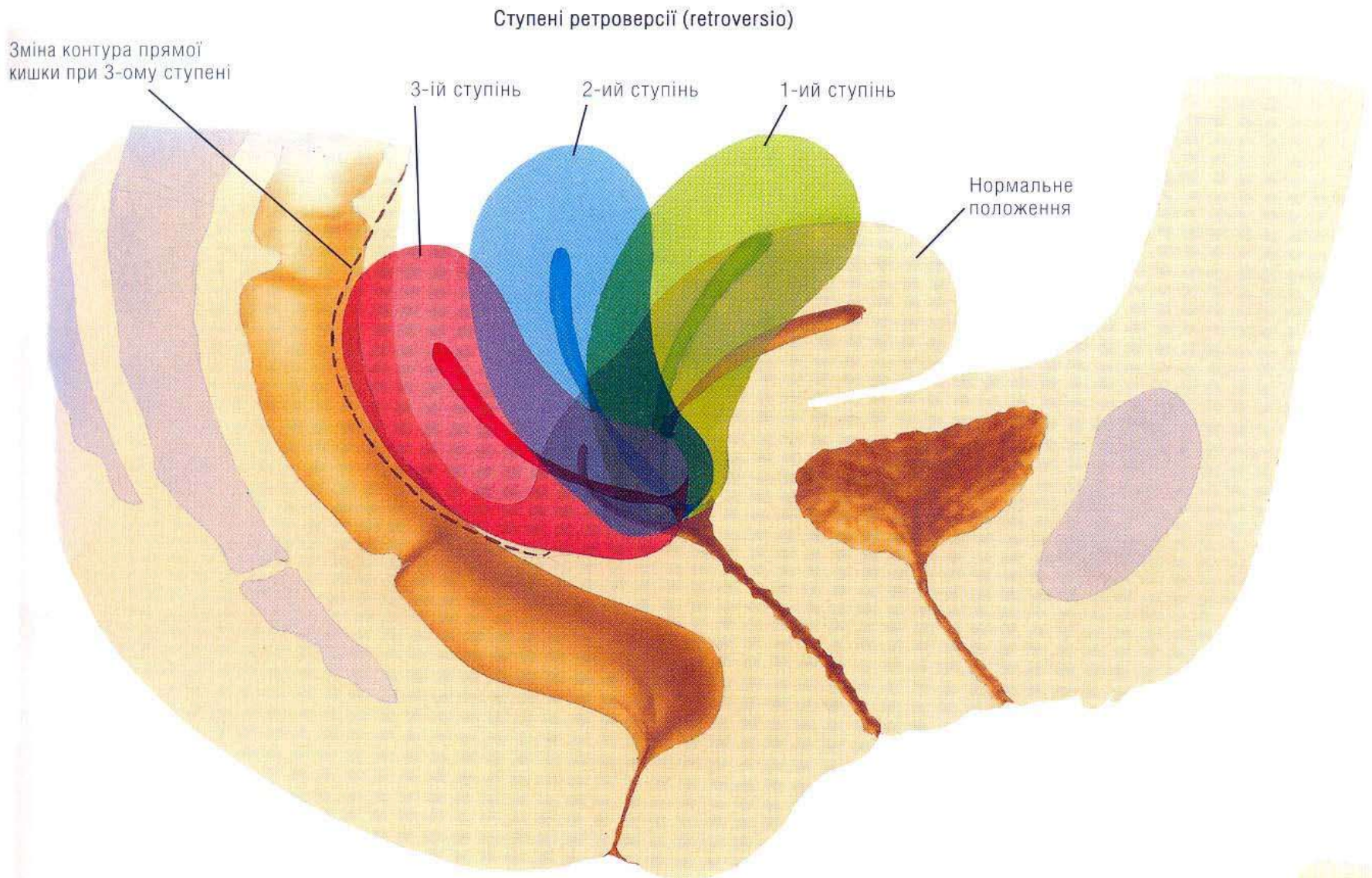
Norma



Cancer

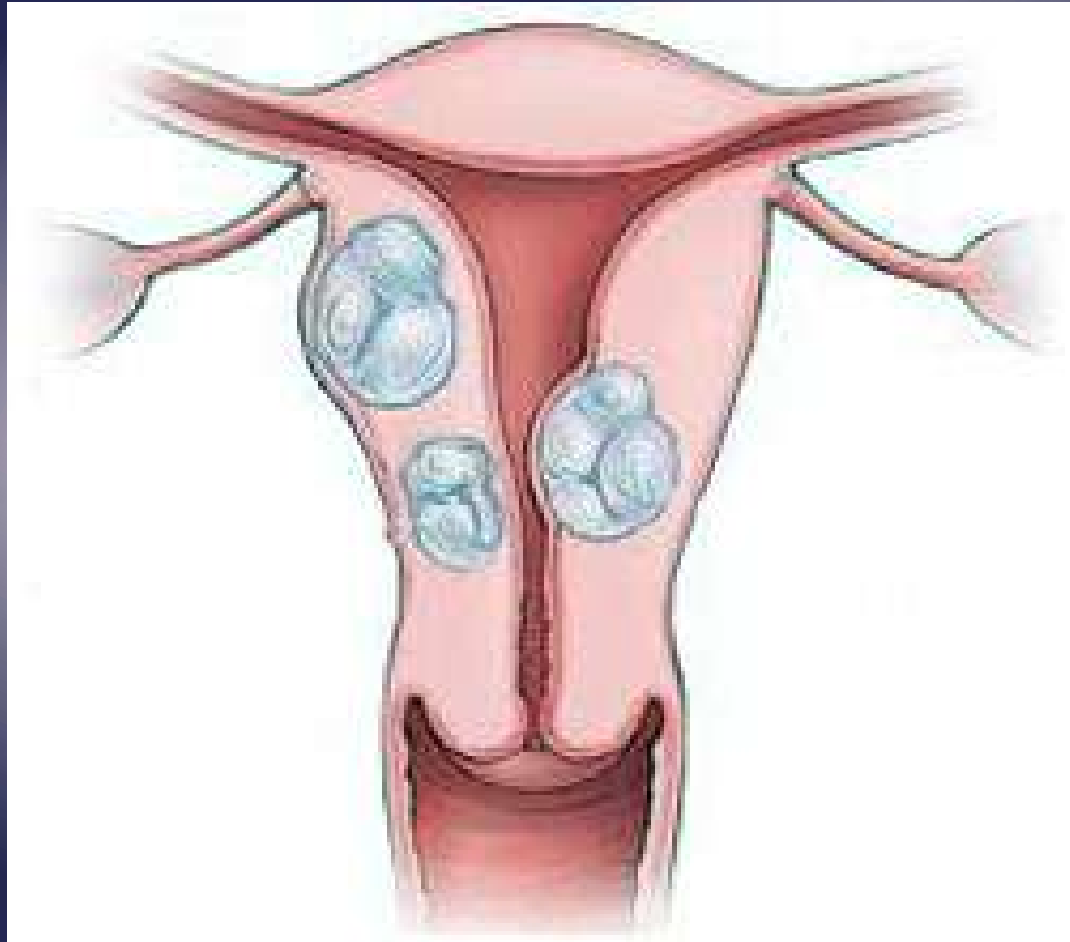


Матка (uterus): варіанти і положення

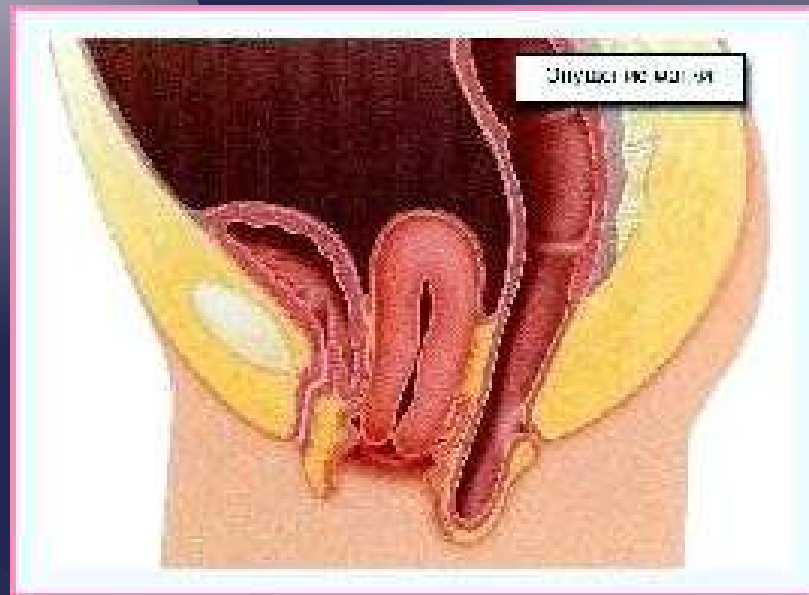


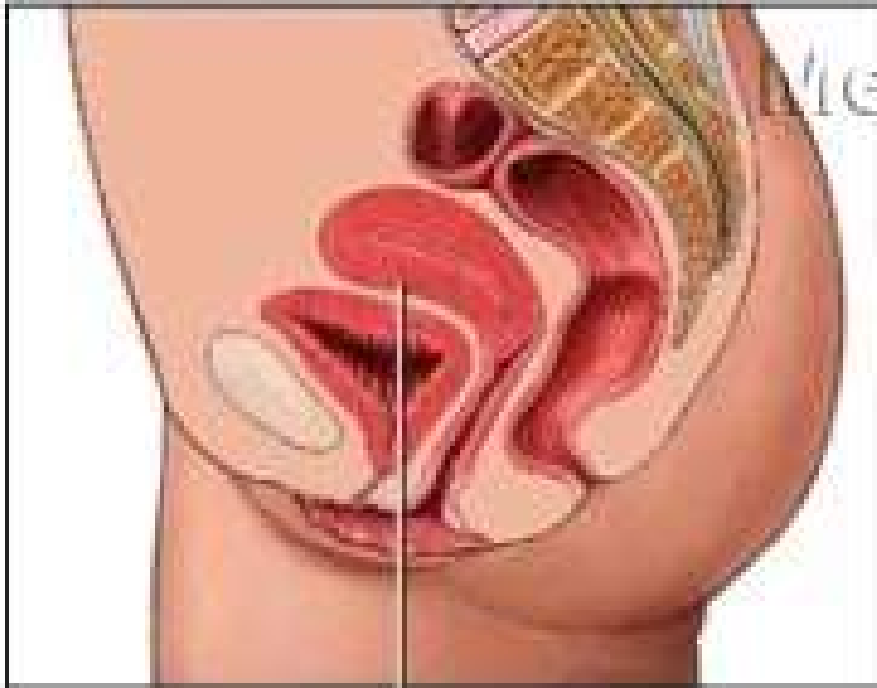
Fibroids - benign tumors of the uterus with fibrous and muscle tissue



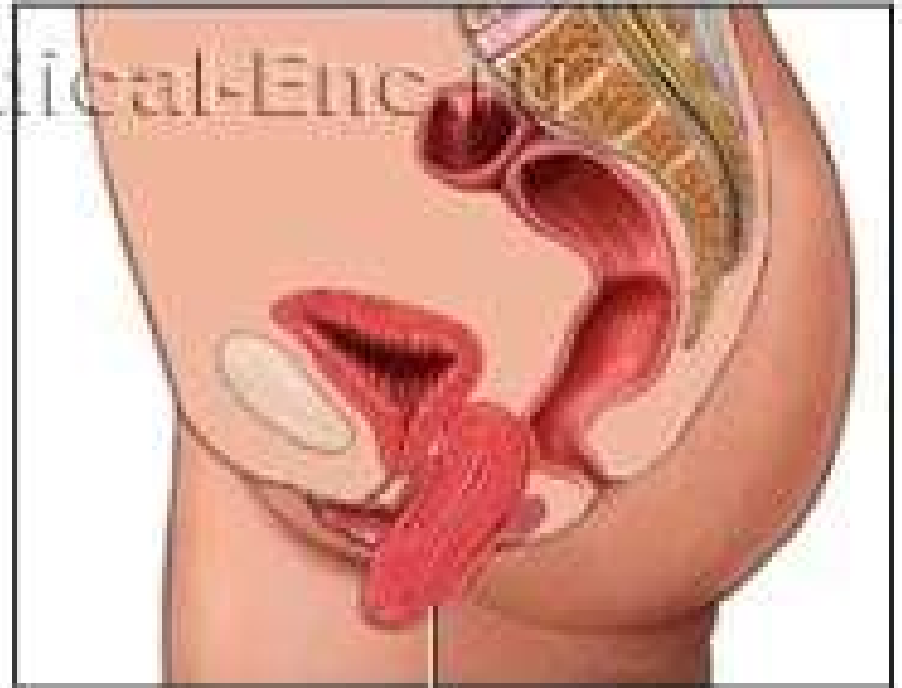


PROLAPSE - occurs when pelvic floor muscles and ligaments stretch and weaken (**during pregnancy and childbirth**), providing inadequate support for the uterus. The uterus then slips down into or protrudes out of the vagina.





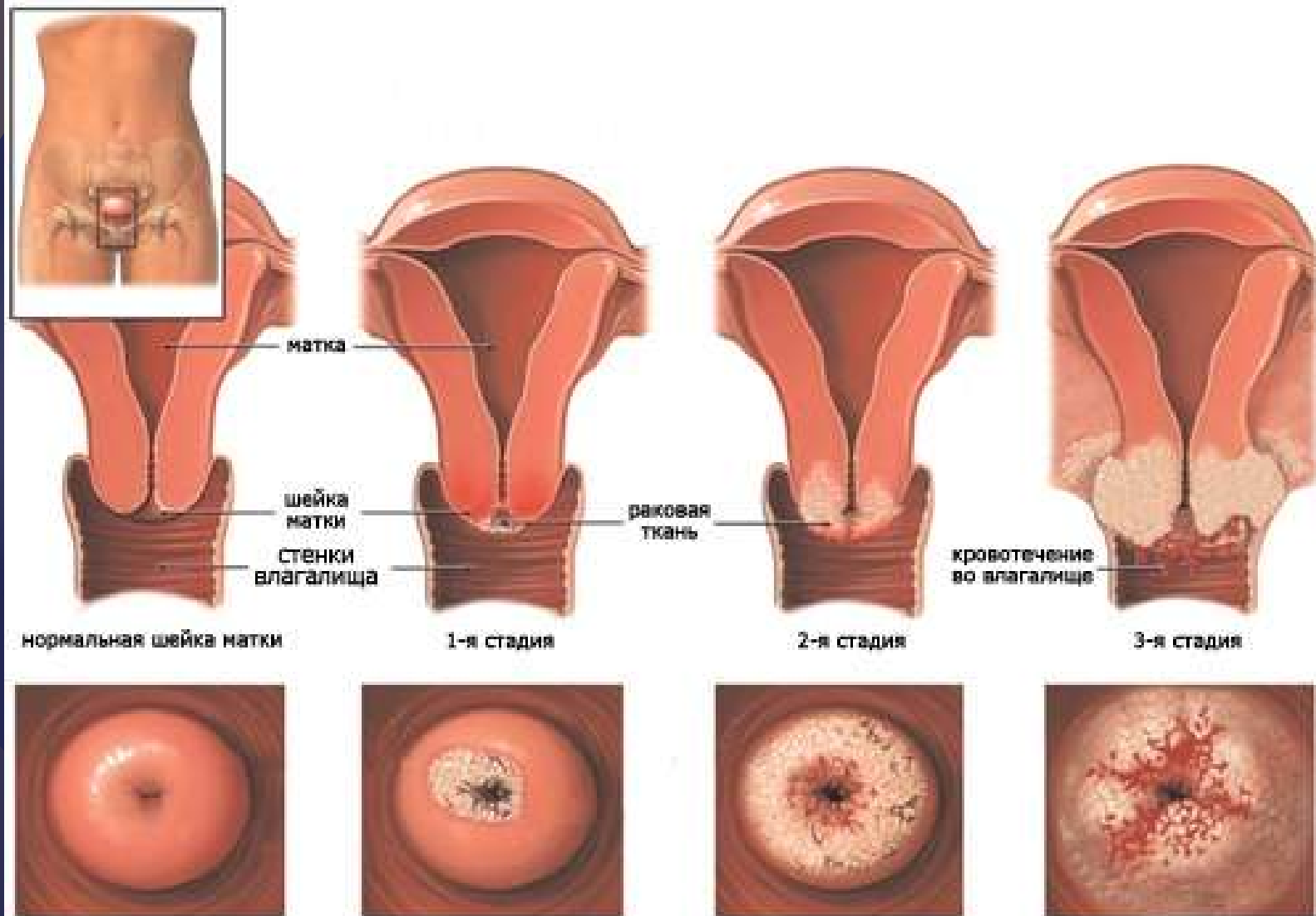
Матка



Випадіння матки

IMPACT loss uterus:_ Sagging
uterus, vagina distortion,_ A
violation of peristalsis and urine,
rectal prolapse

Cervical Cancer



лапароскопия

лапароскоп
(видеокамера)

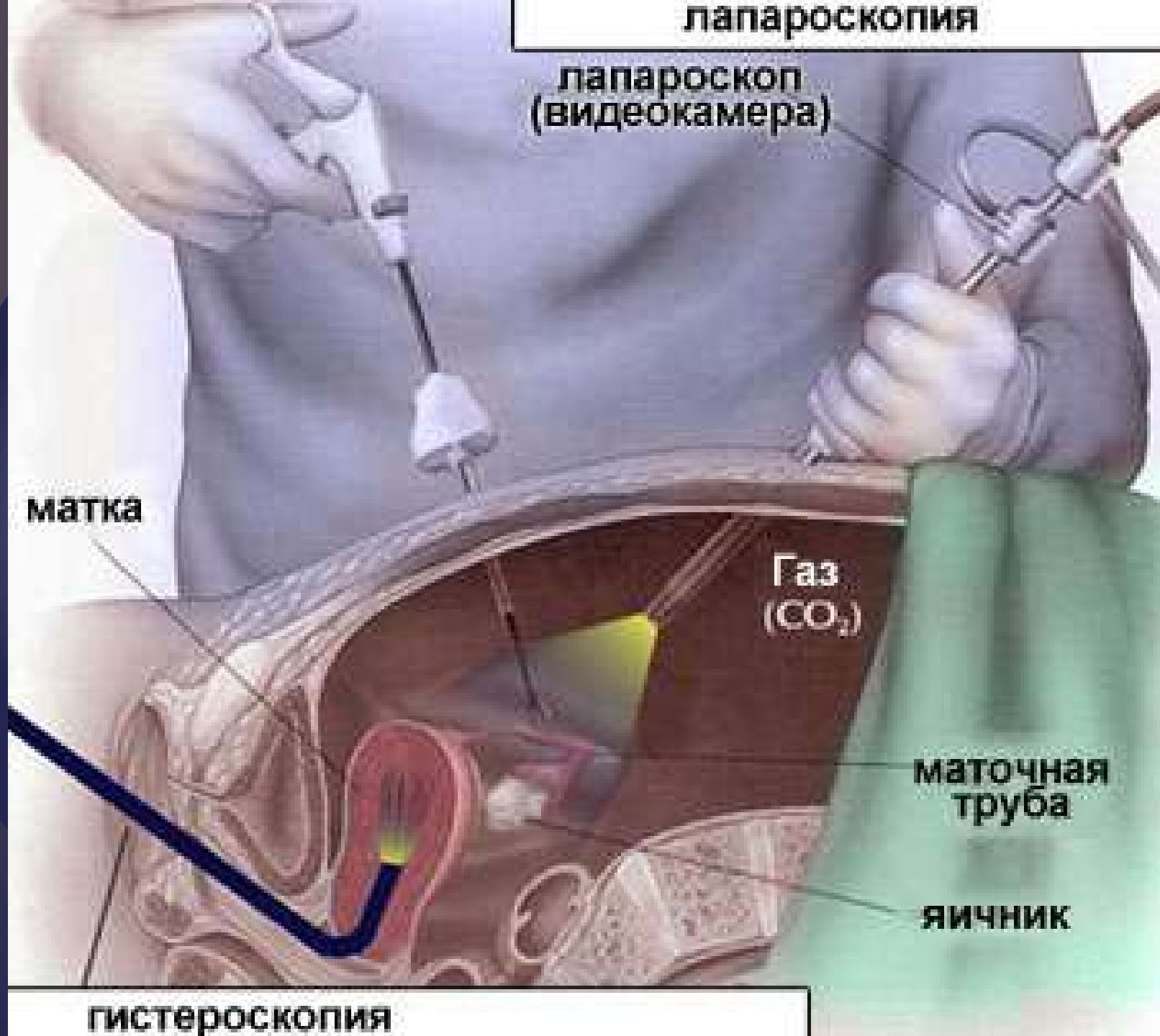
матка

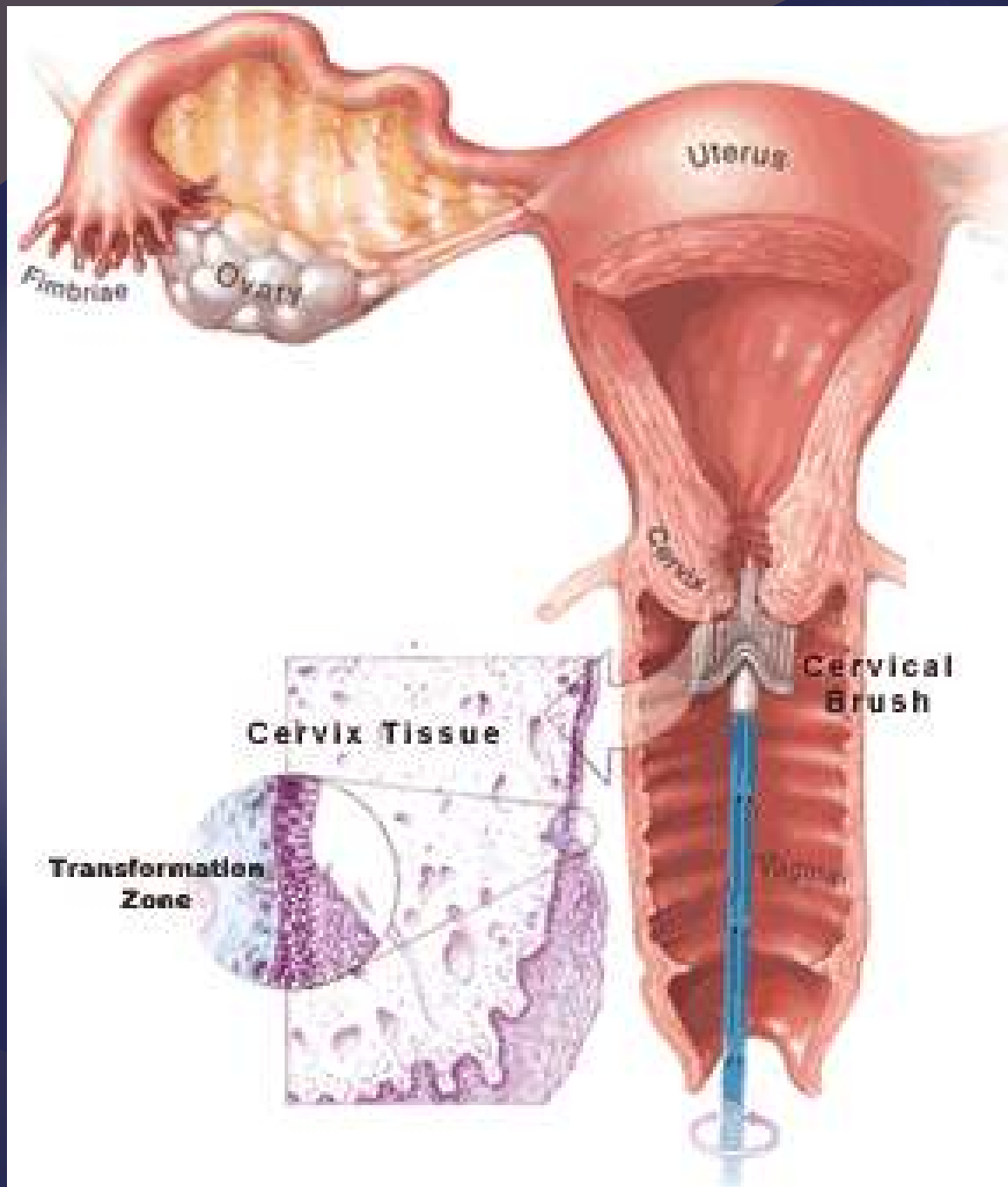
Газ
(CO₂)

маточная
труба

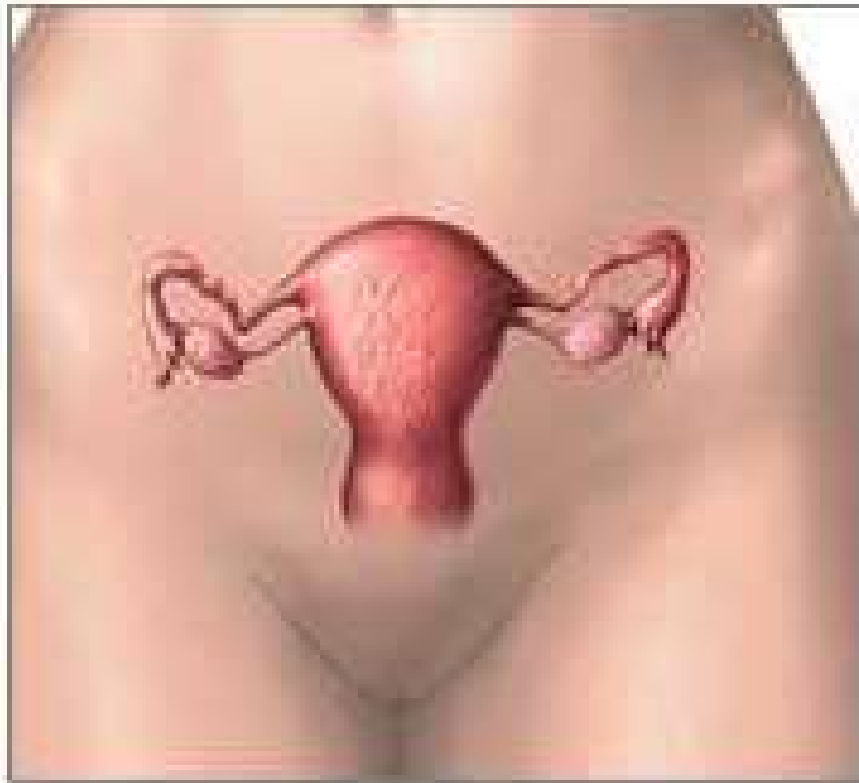
яичник

гистероскопия

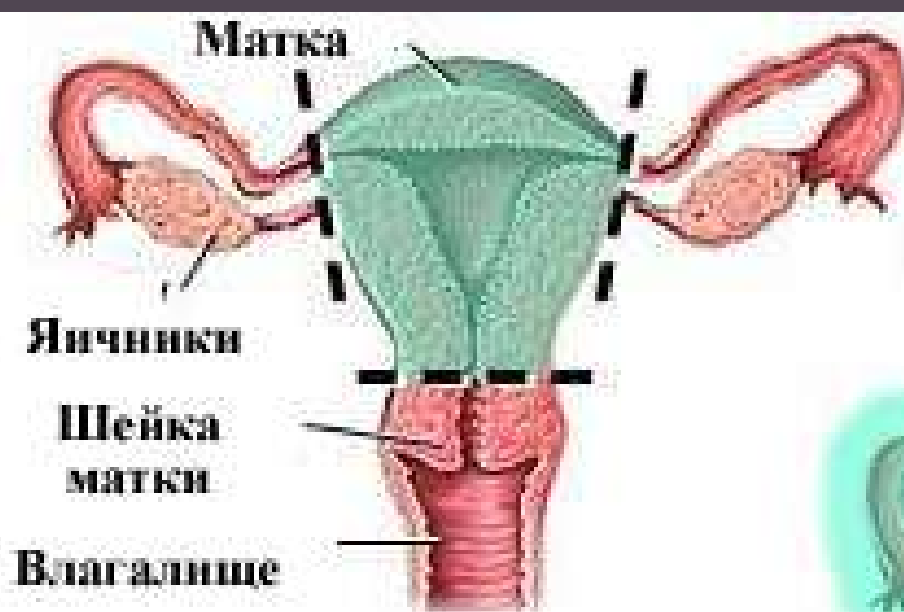




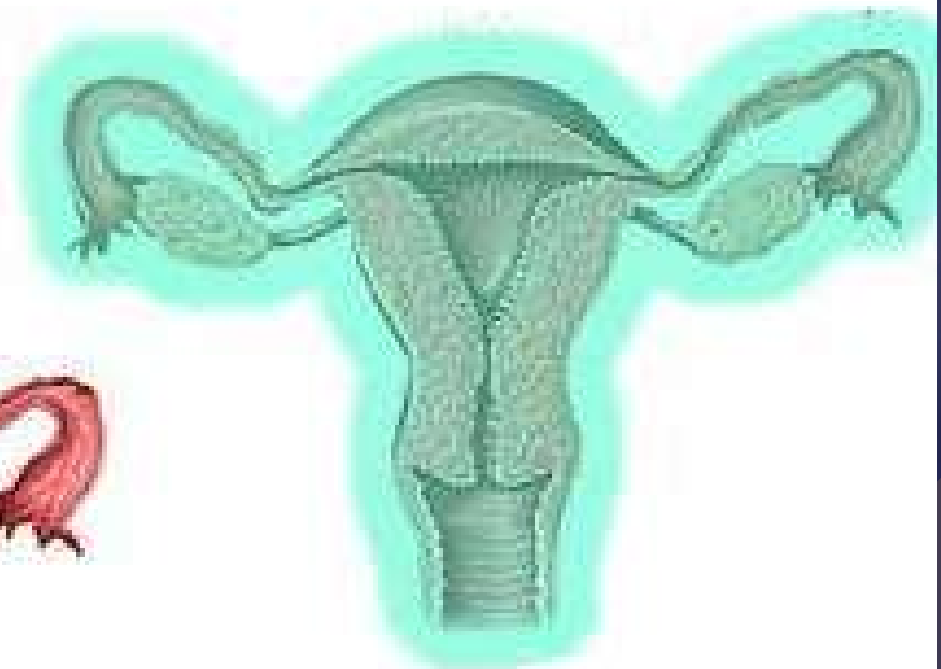
Hysterectomy (hysterectomy) – it is a surgical removing of the uterus.



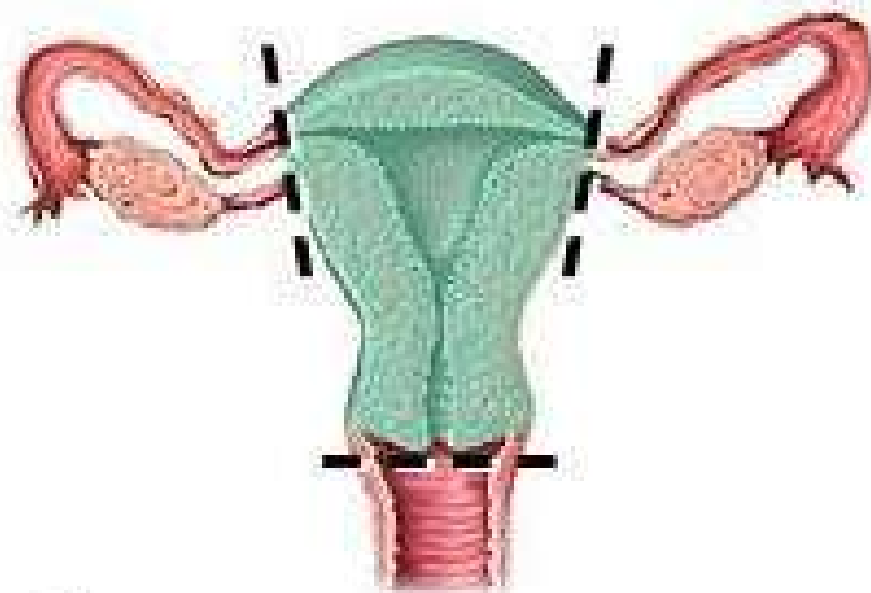
Picture: Hysterectomy



Во время гистерэктомии
может быть удалена
матка, шейка матки,
и яичники



Частичная



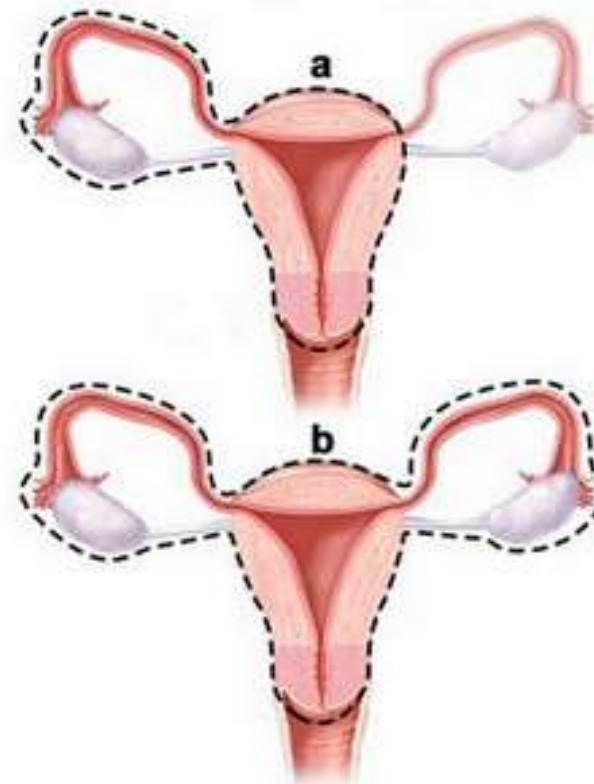
Радикальная
гистерэктомия

Простая гистерэктомия

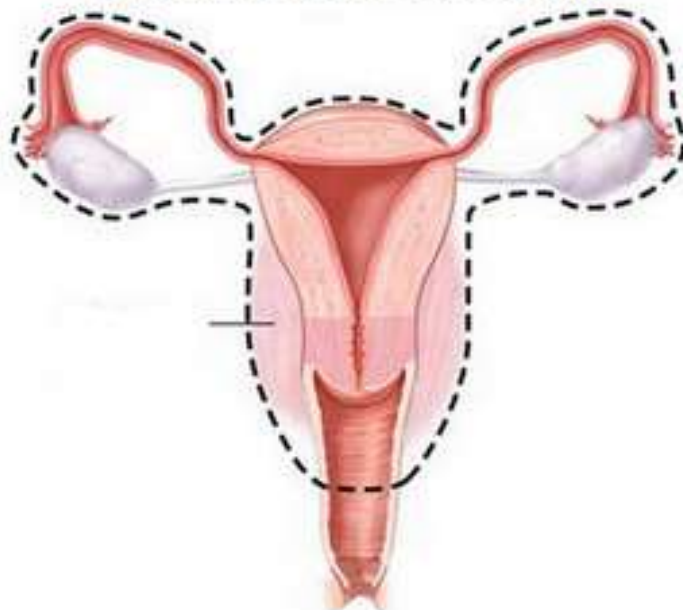
Полная гистерэктомия



Полная гистерэктомия с удалением придатков матки



Радикальная гистерэктомия



1. Supravaginal amputation of the uterus (hysterectomy subtotal) - surgery that involves removal of the uterine cervix while maintaining (laparoscopic subtotal hysterectomy, subtotal abdominal histrektomiya).

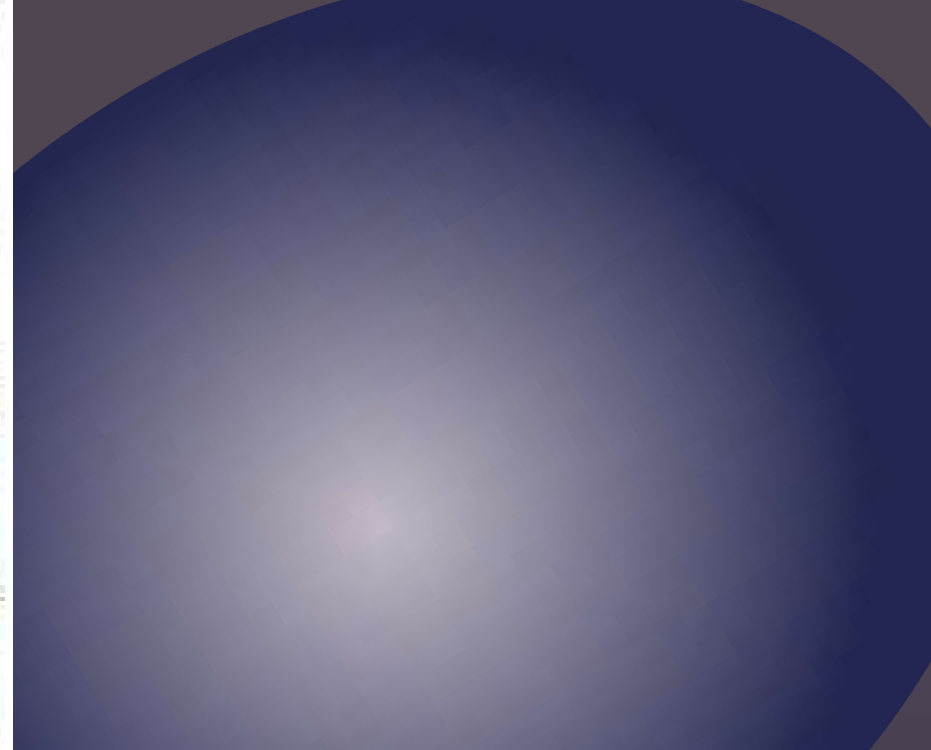
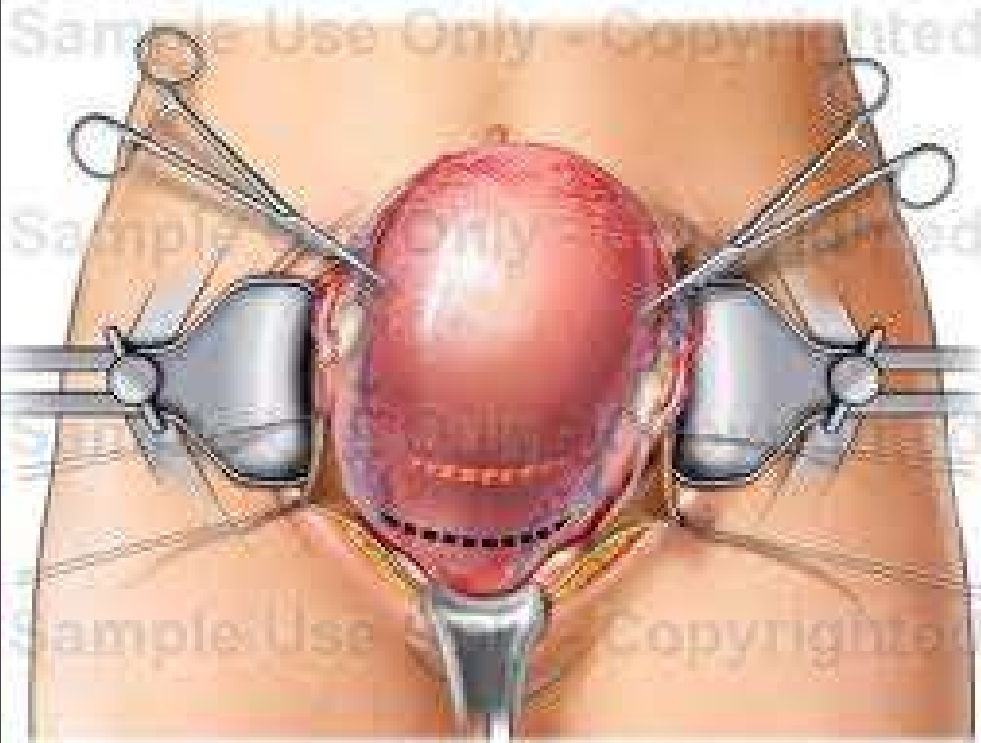


Supravaginal amputation of the uterus without appendages - square selection area removal.

that involves the removal of the body and cervix
(total hysterectomy laparoscopic, abdominal
hysterectomy total).

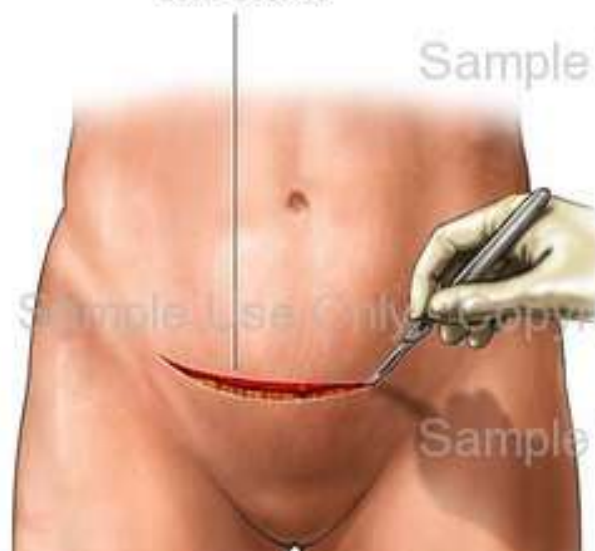


Hysterectomy without appendages (total
hysterectomy) - square selection area
removal

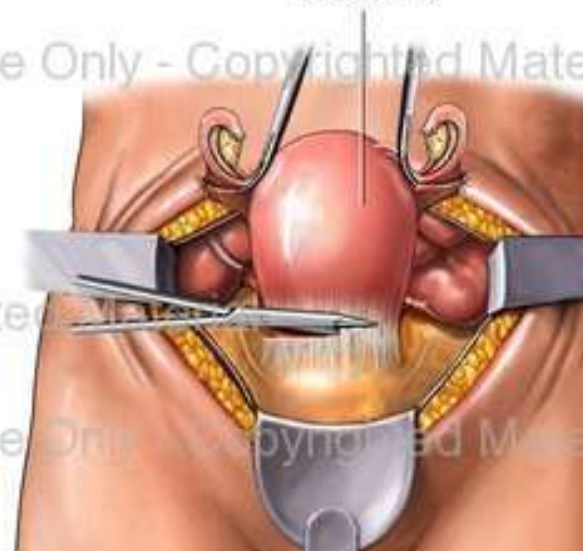


Abdominal Hysterectomy

Incision



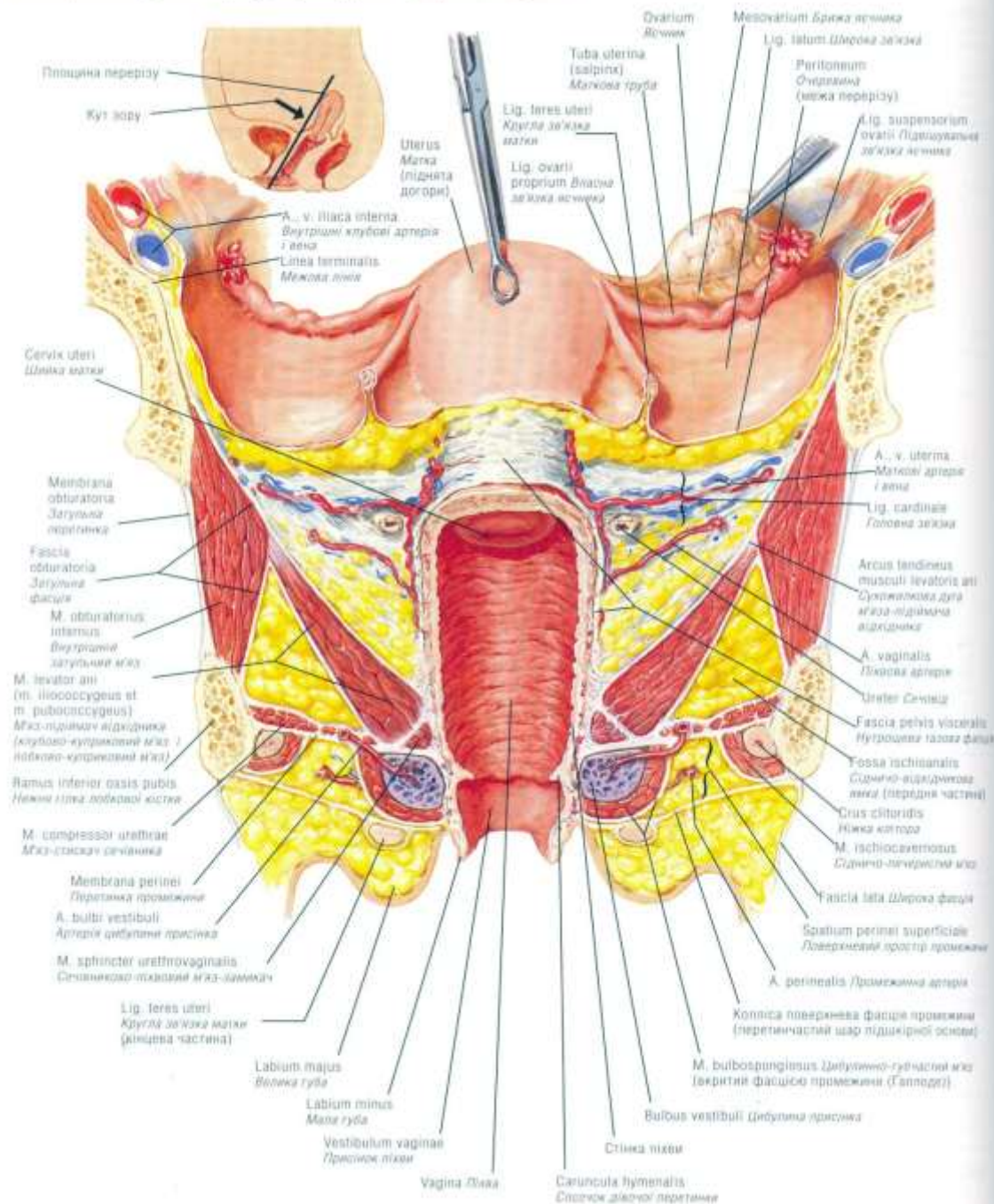
Uterus

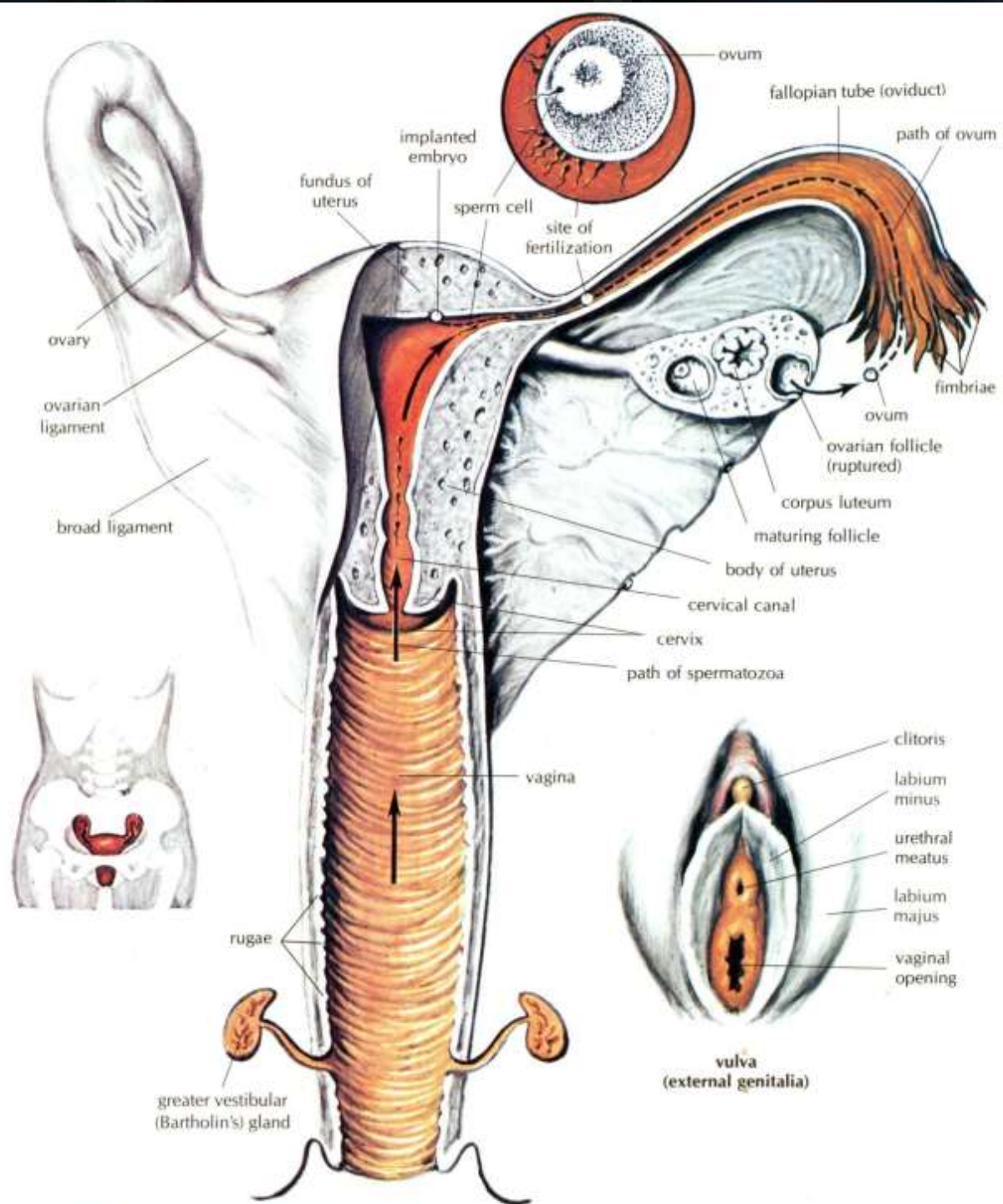


VAGINA

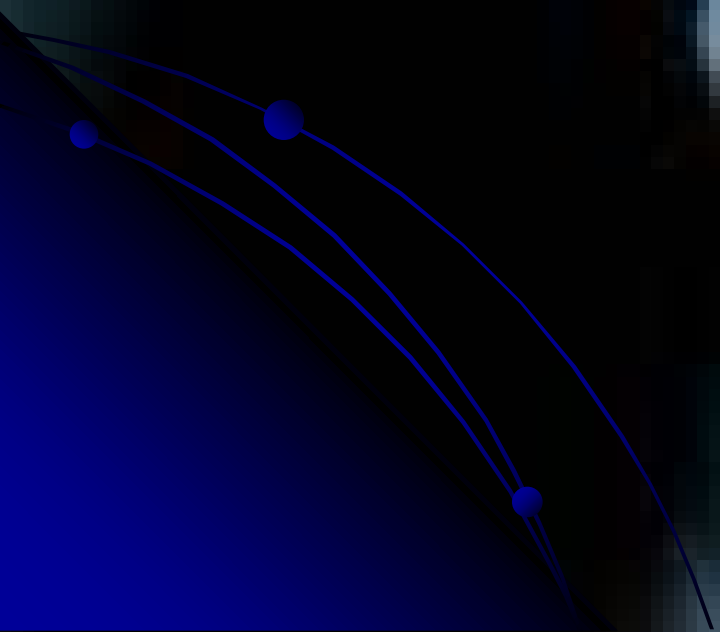
S. COLPOS

Матка (uterus), піхва (vagina) й органи, що їх оточують

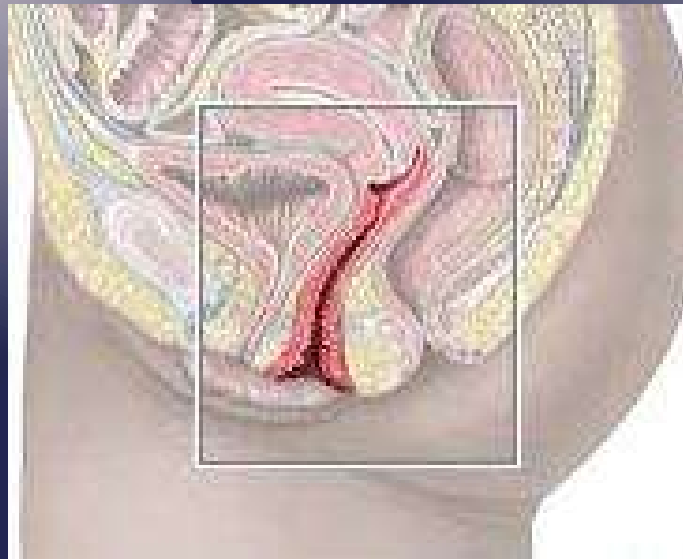




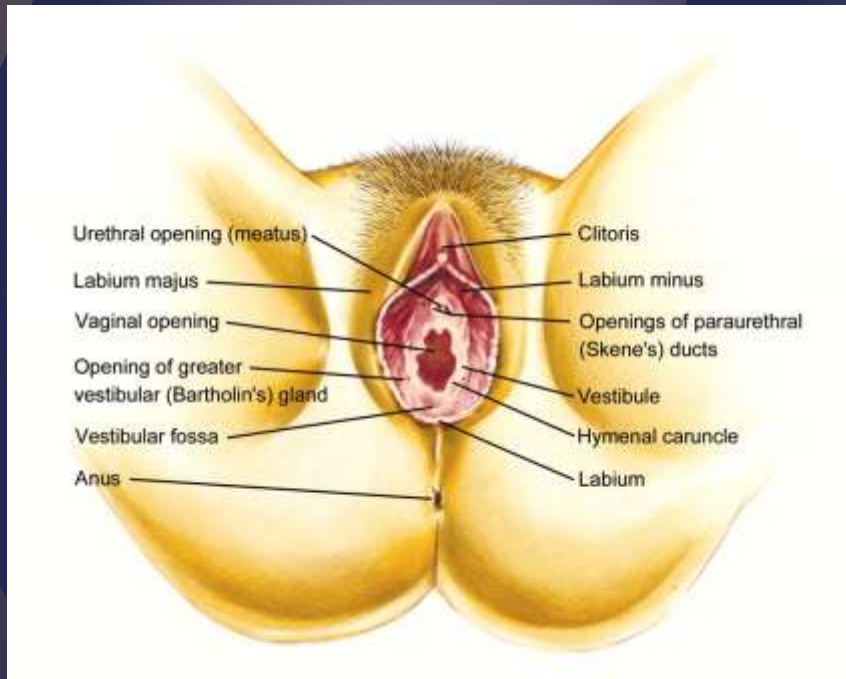
Intercourse in the lower parts of the walls of the vagina IS swelling, depending on filling with blood venous plexus located there. If formed cuff covering the penis (orgasmic platform).



Obesity (vaginitis) -
inflammation of the vagina
caused by specific flora or
fungus.




Vulva

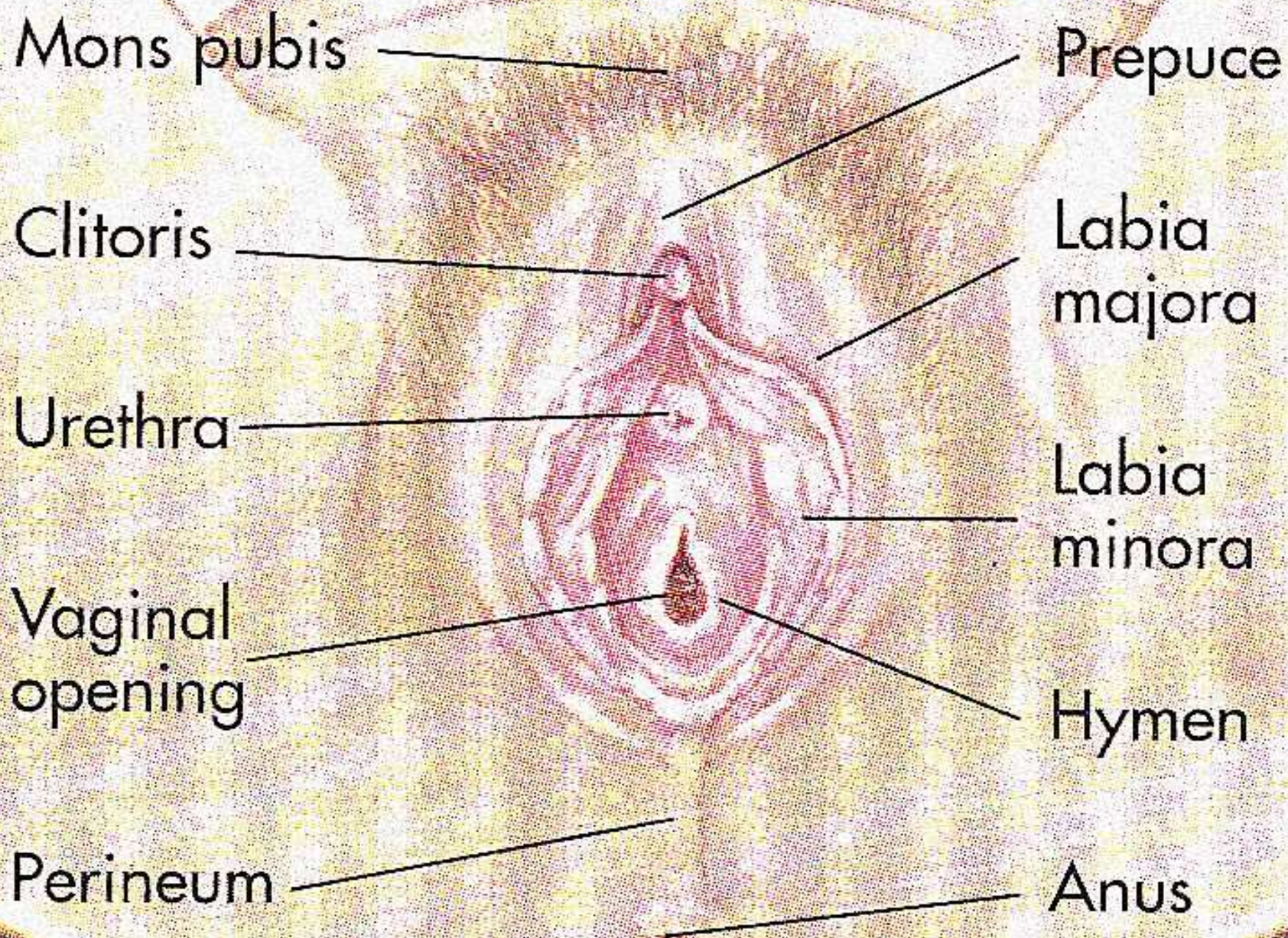


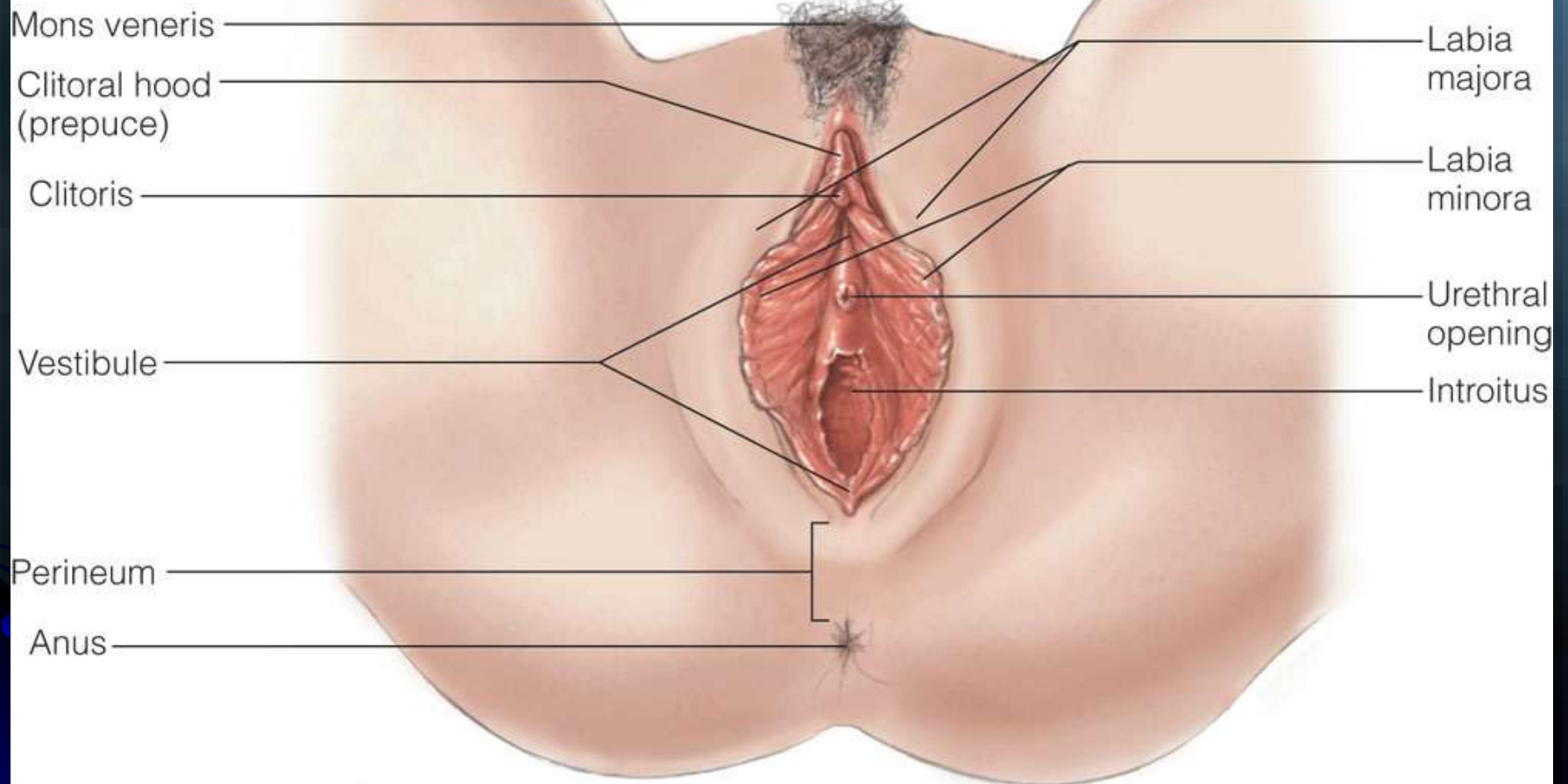
- & The female external genital organs are also known as the **vulva**.
- & It consists of the *labia majora* and *labia minora* clitoris, opening of the urethra, and the opening of the vagina.





External female genitalia
CONSTITUTE a female genital area.



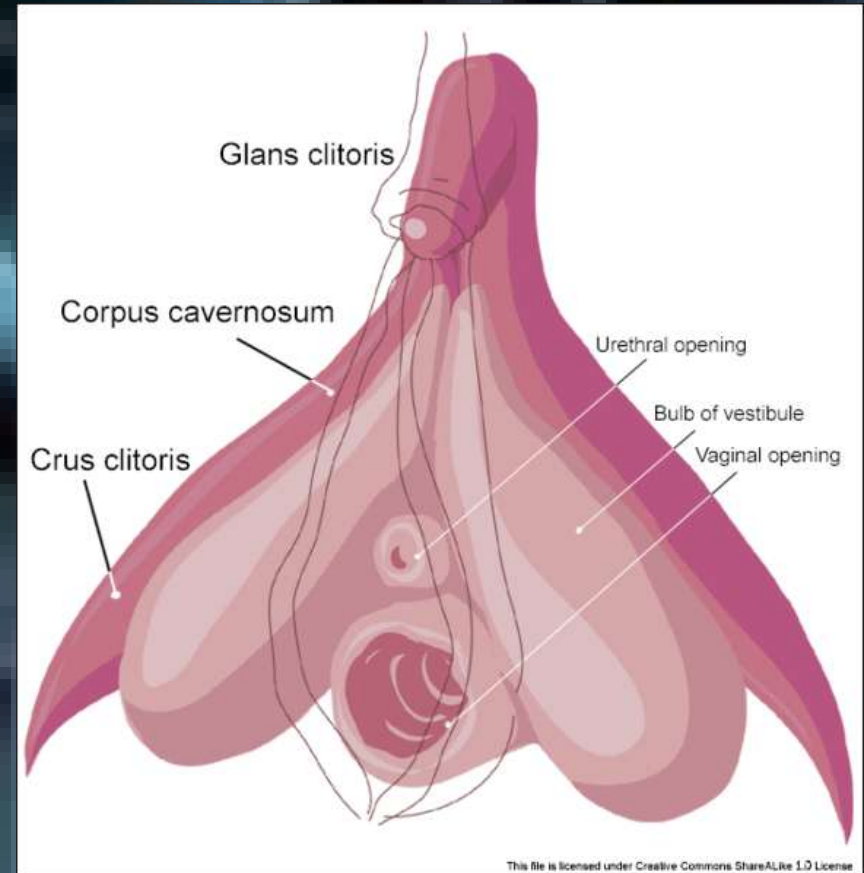


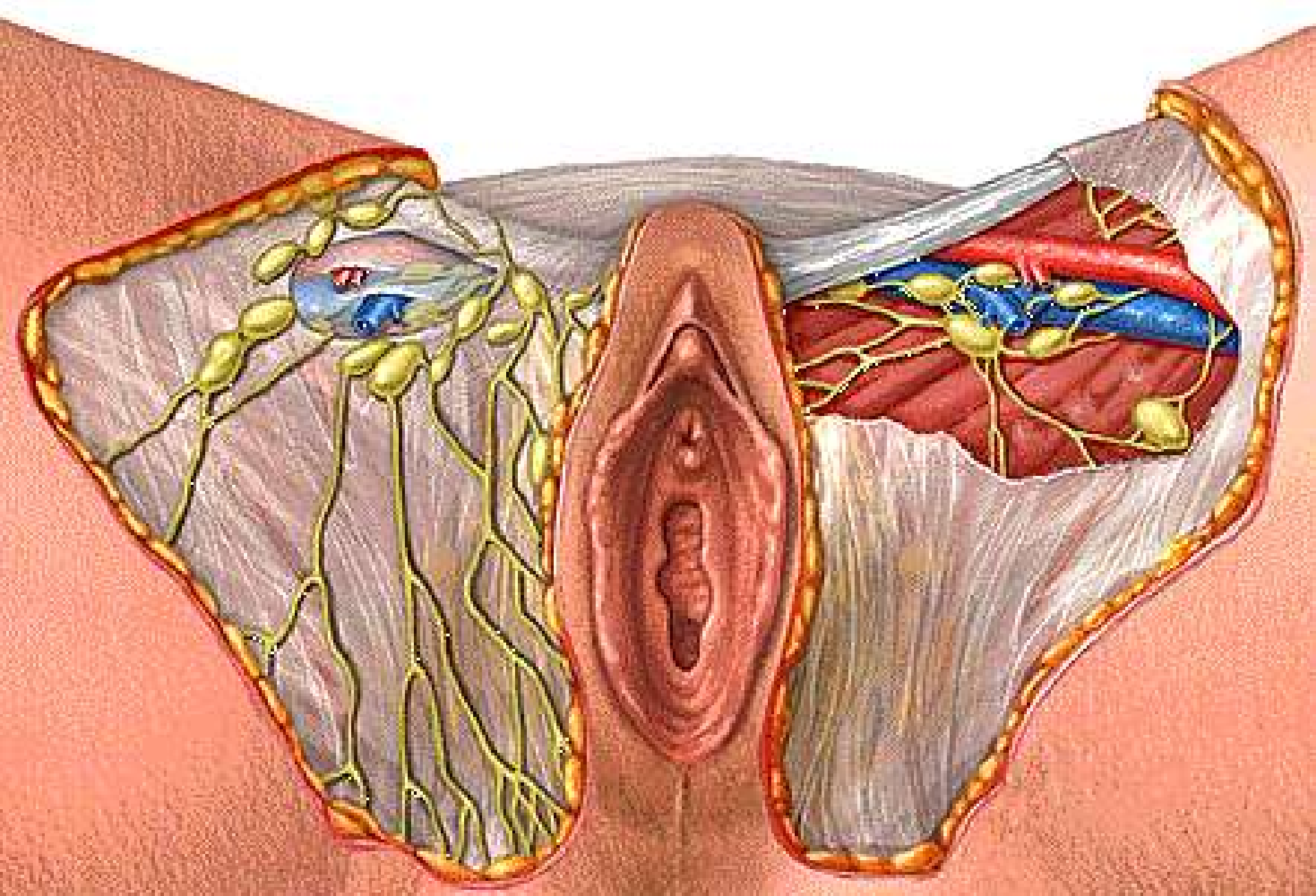
© 2007 Thomson Higher Education

The external genital structures of the mature female.

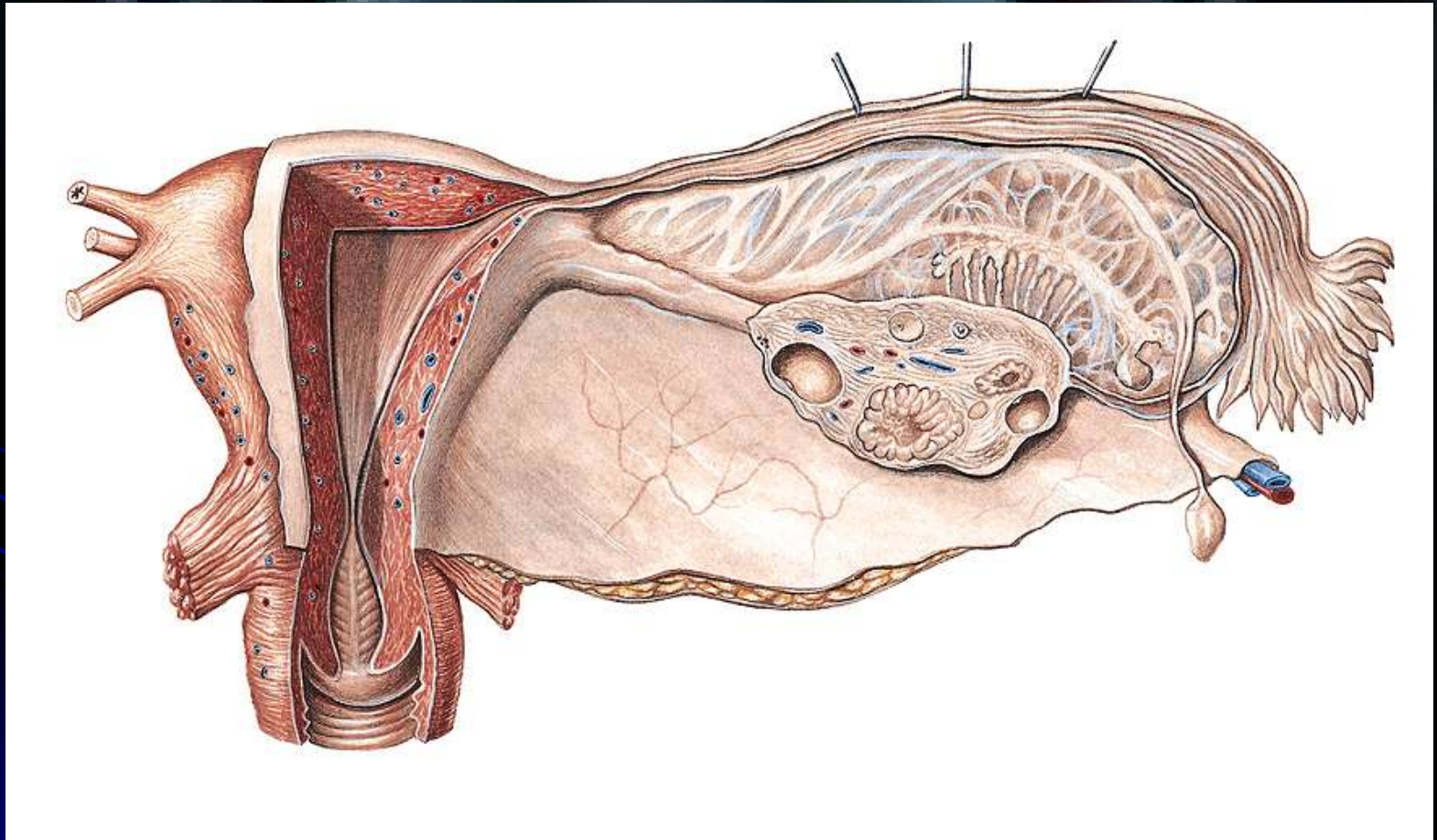
Clitoris

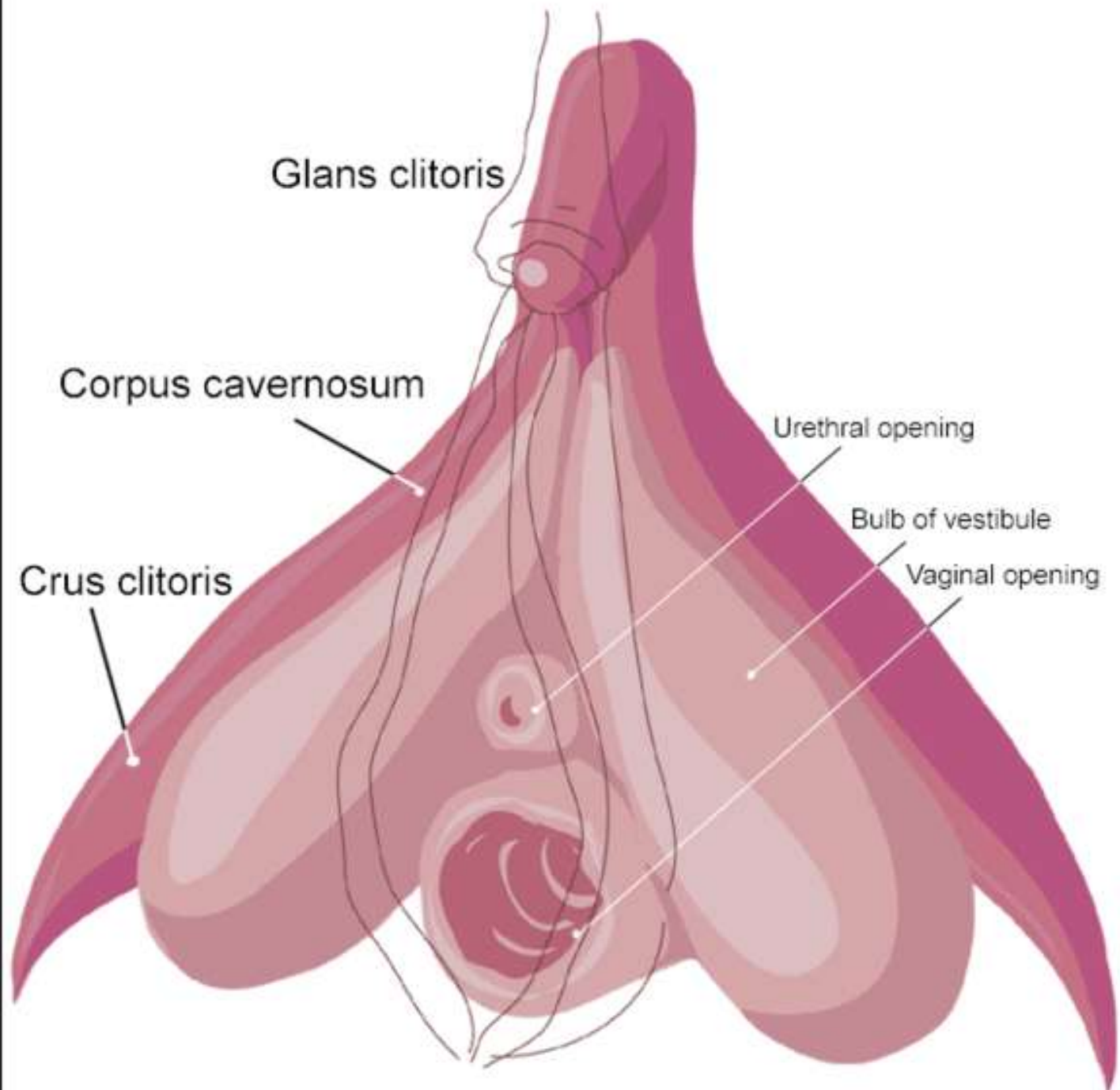
The clitoris is a female sexual organ. In humans, the visible knob-like portion is located near the anterior junction of the labia minora, above the opening of the vagina. The clitoris does not contain the distal portion of the urethra and functions solely to induce sexual pleasure. The only known exception to this is in the spotted hyena, where the urogenital system is modified so that the female urinates, mates and gives birth via an enlarged, erectile clitoris.

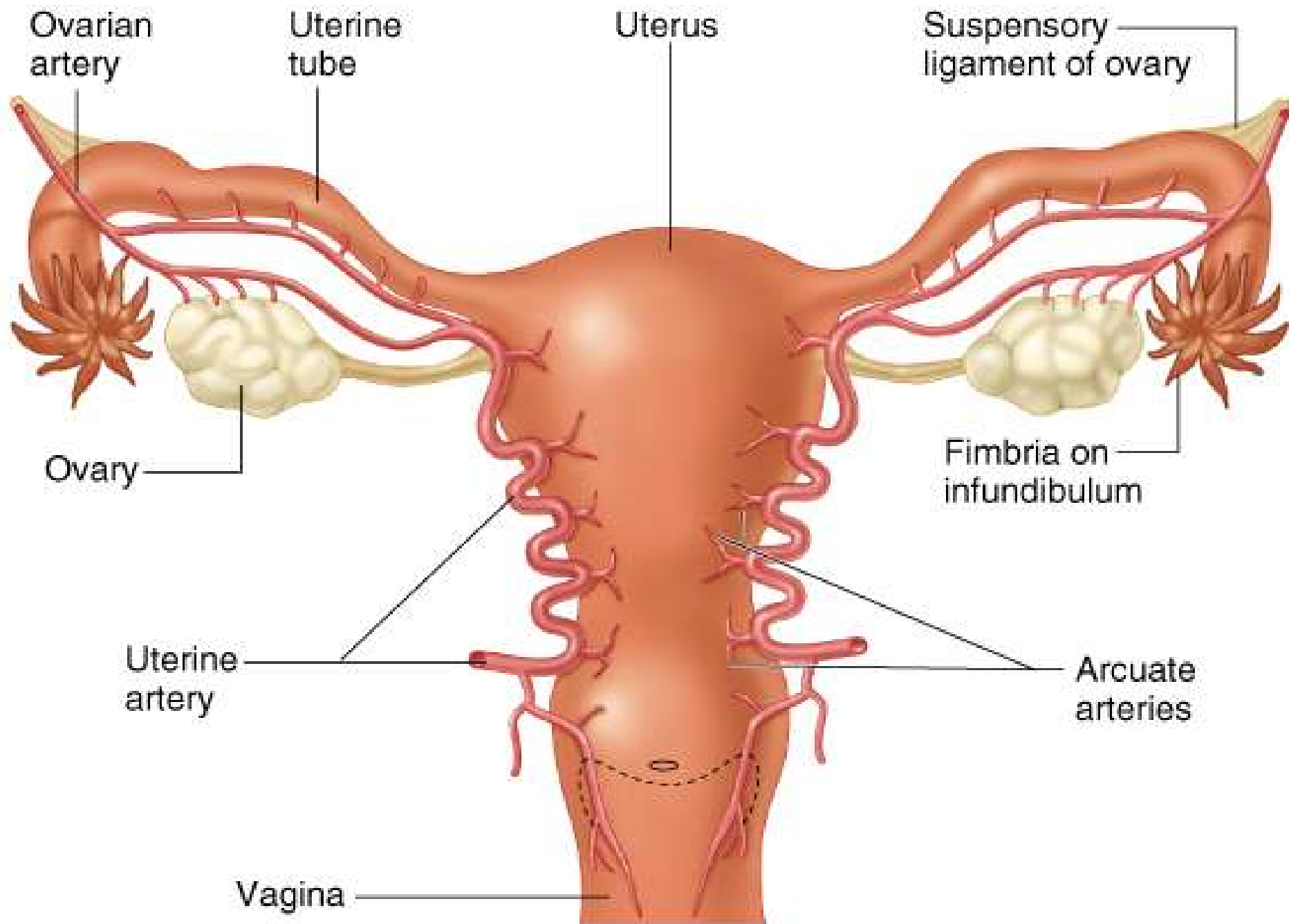


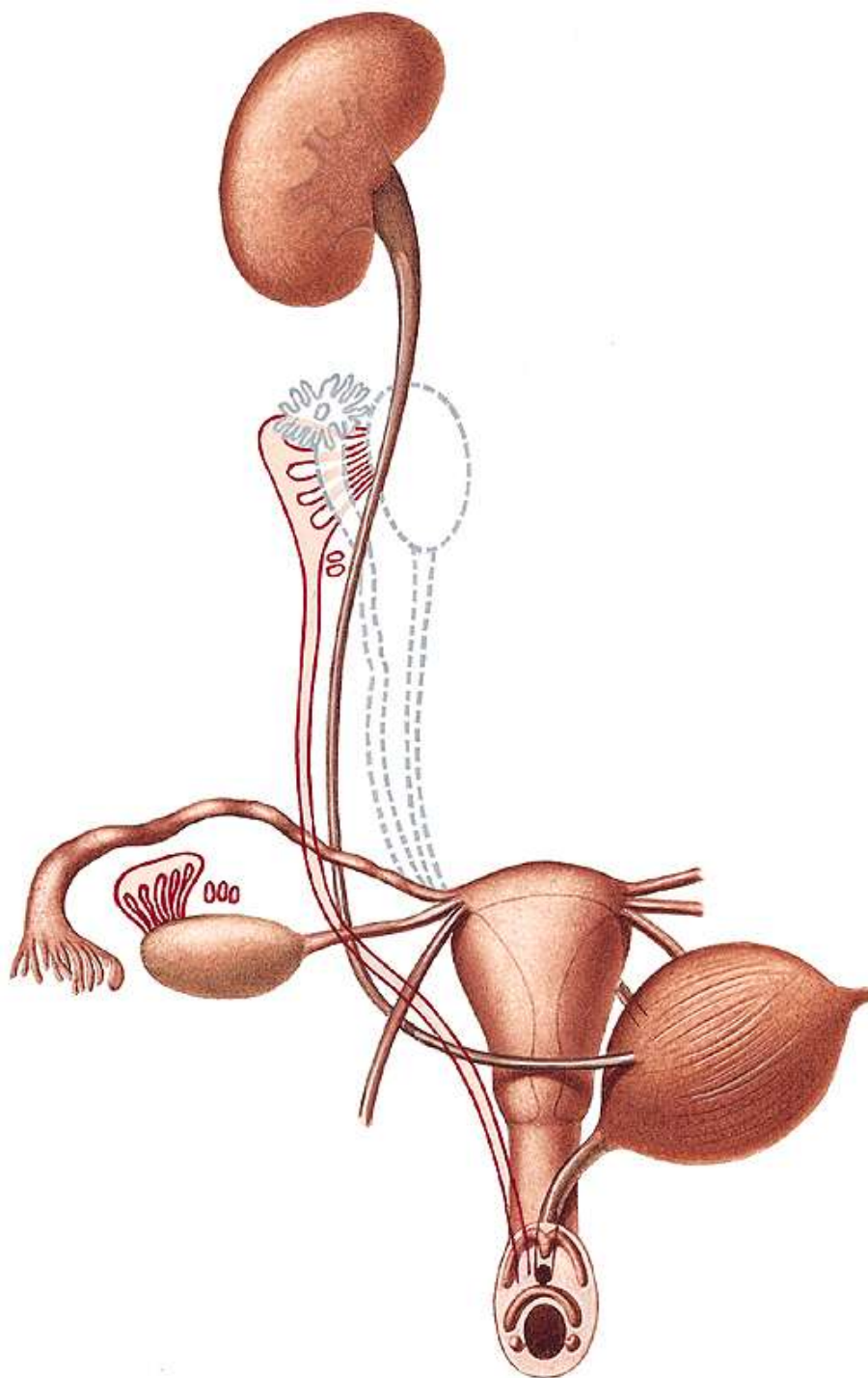


By the structure genitals divided in to parenchymal and tubular organs.









FRS: external structures

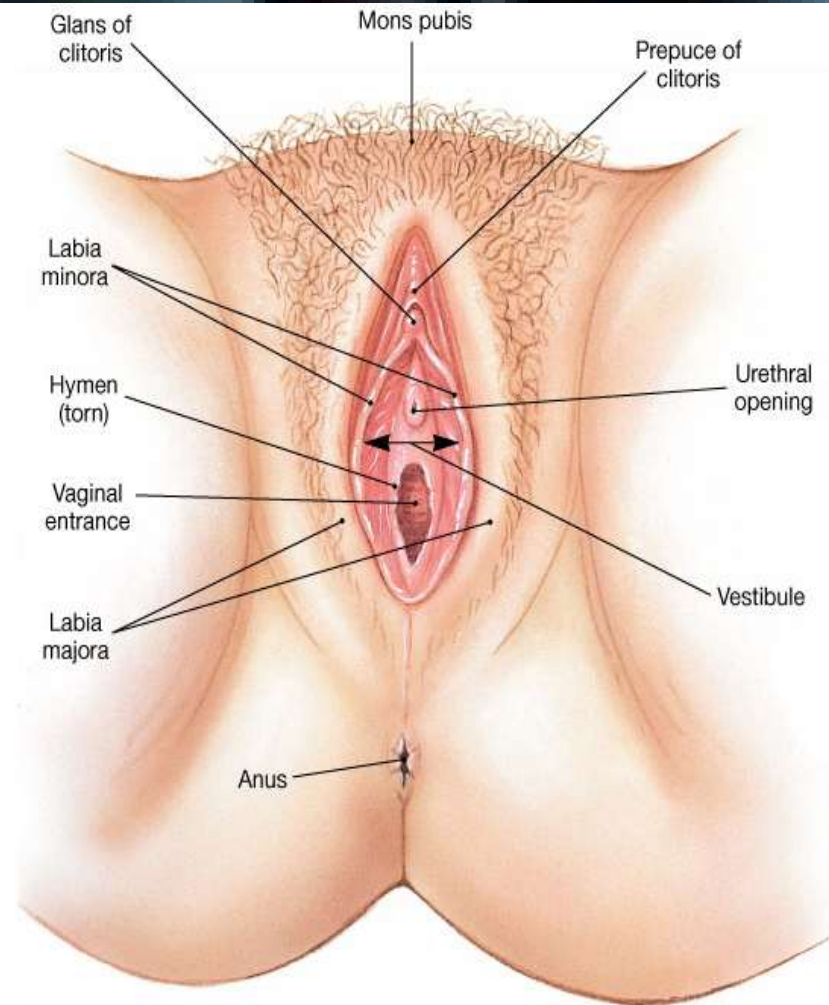
- Vulva:

Labia

Bartholin glands

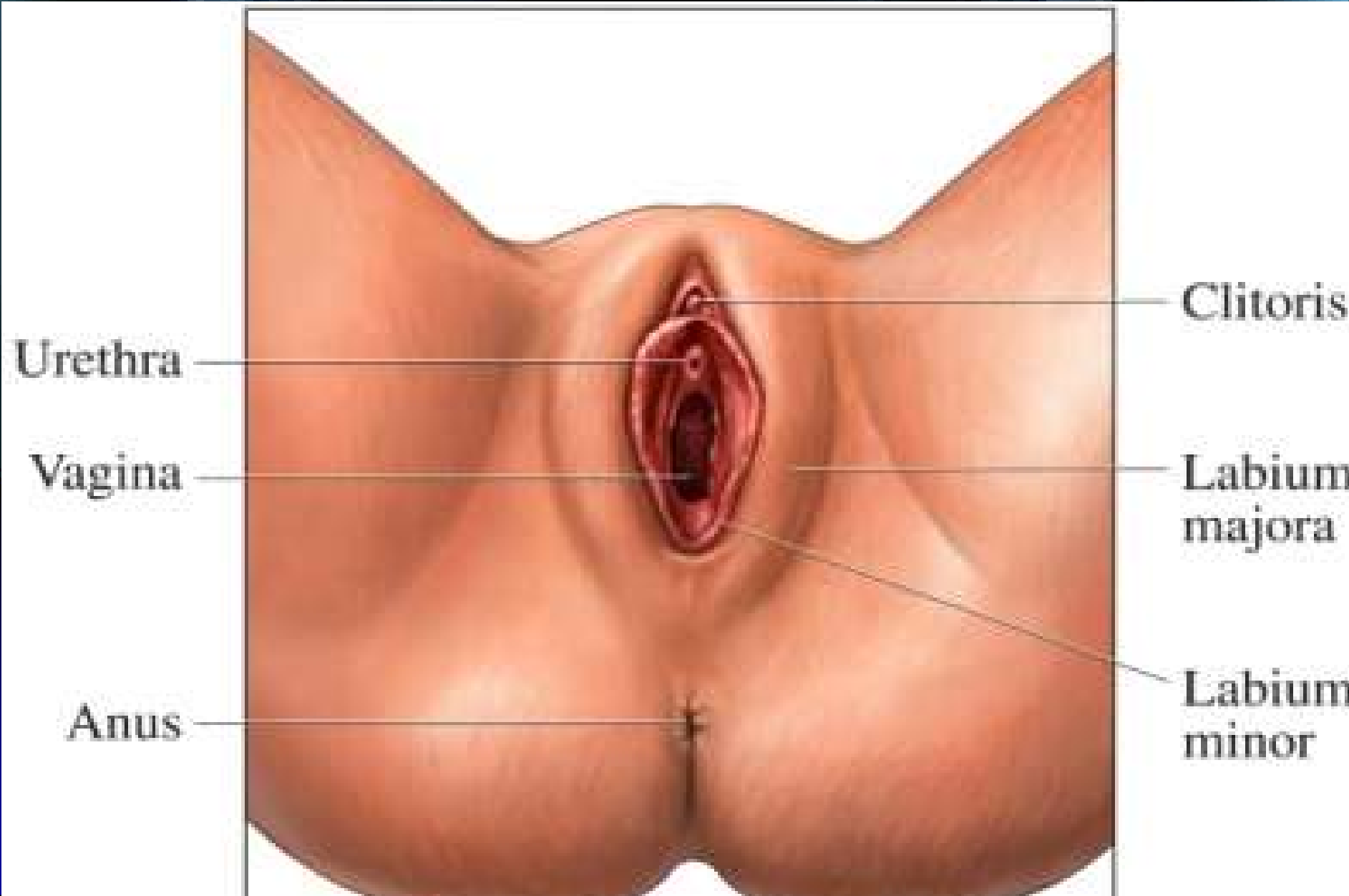
Clitoris

Perineum

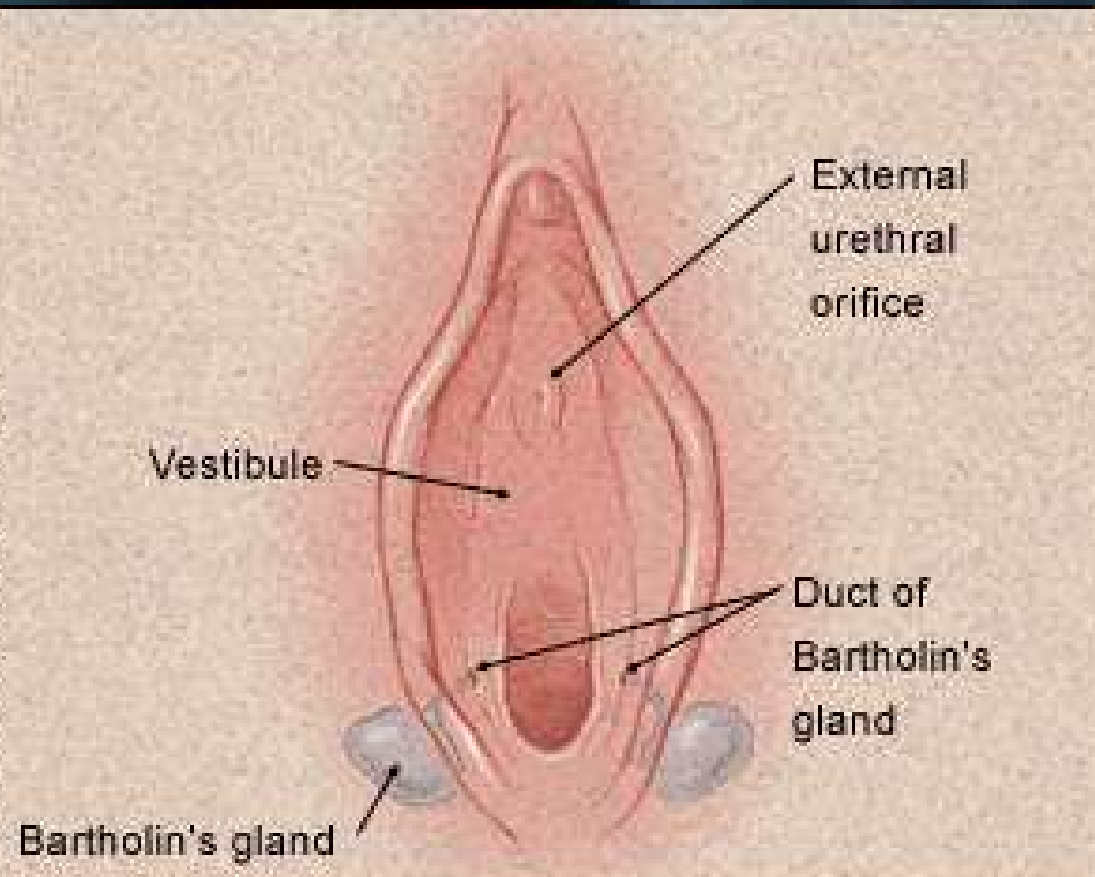


(a) Inferior view

Labia

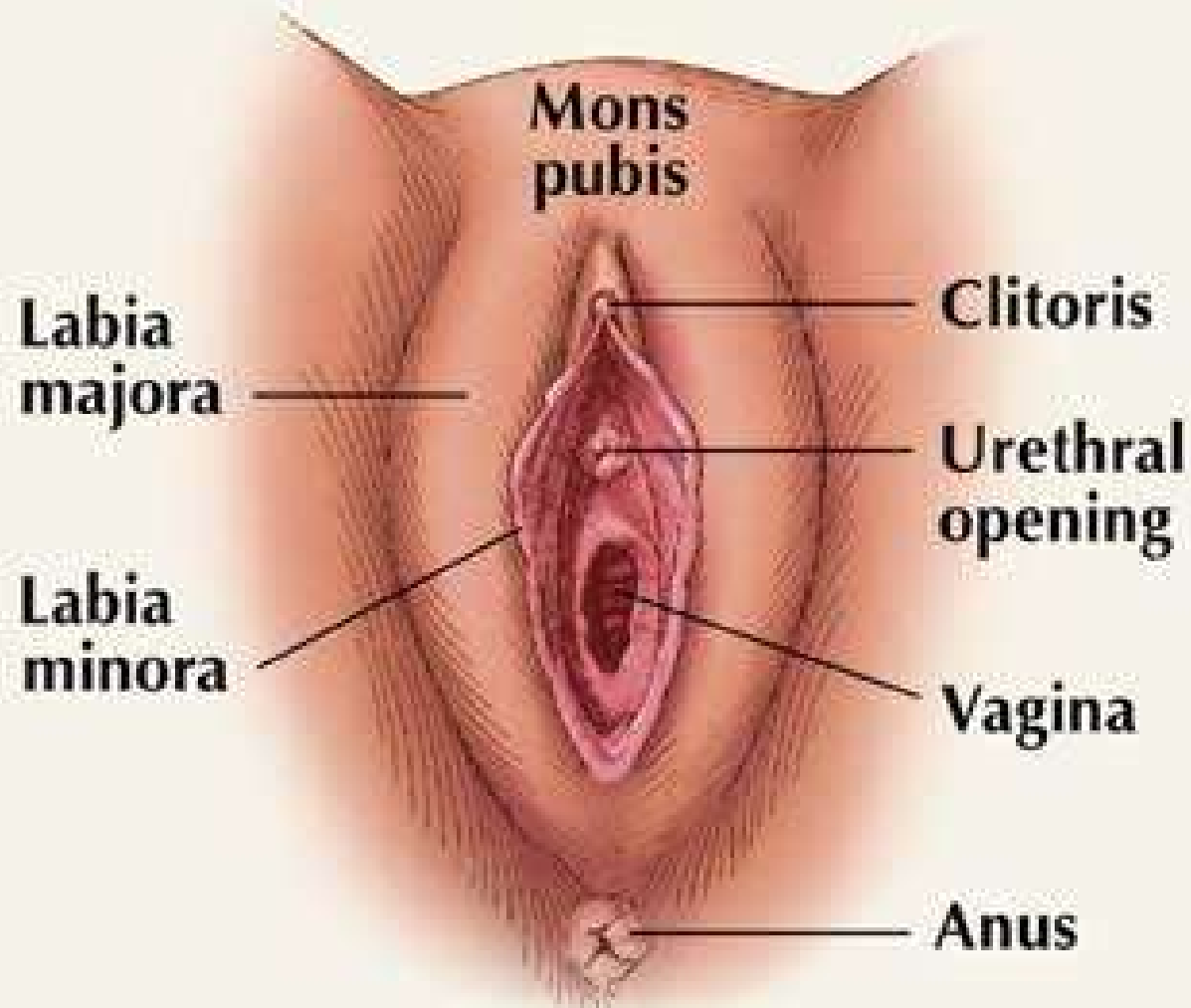


Bartholin glands

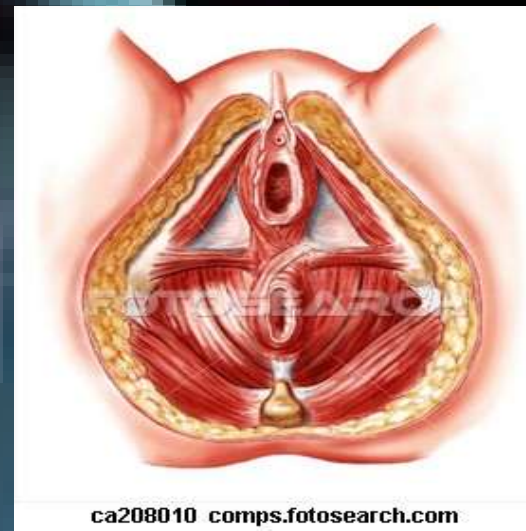
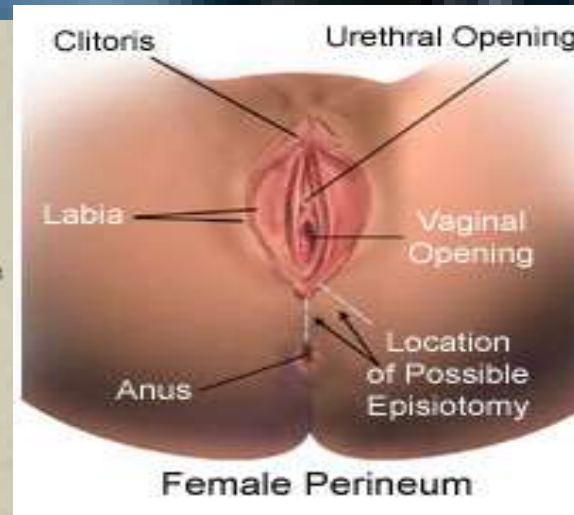
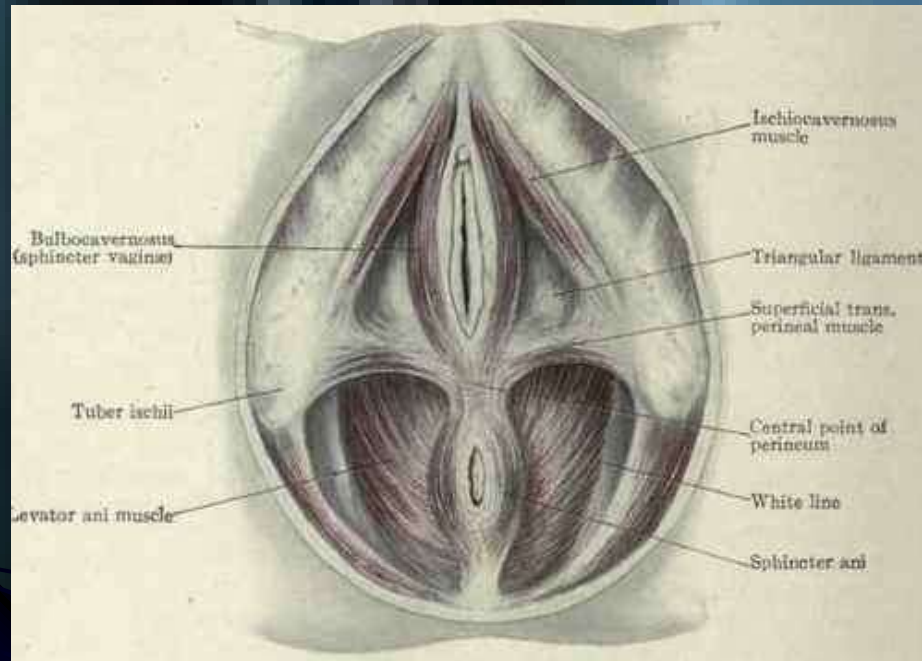


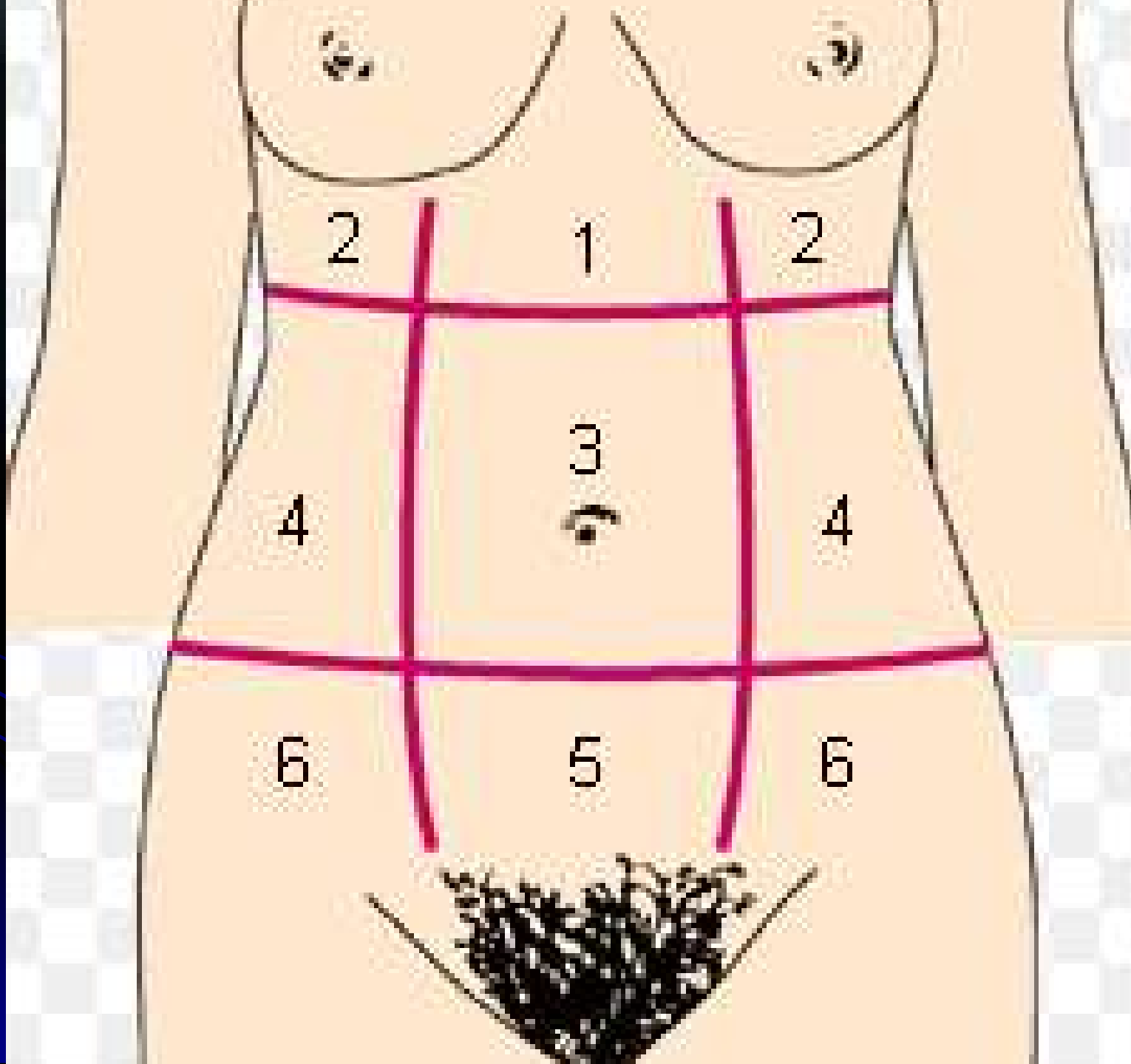
- The two **Bartholin's glands** lie next to the entrance to the vagina. They make a small amount of mucus-like fluid.

Clitoris

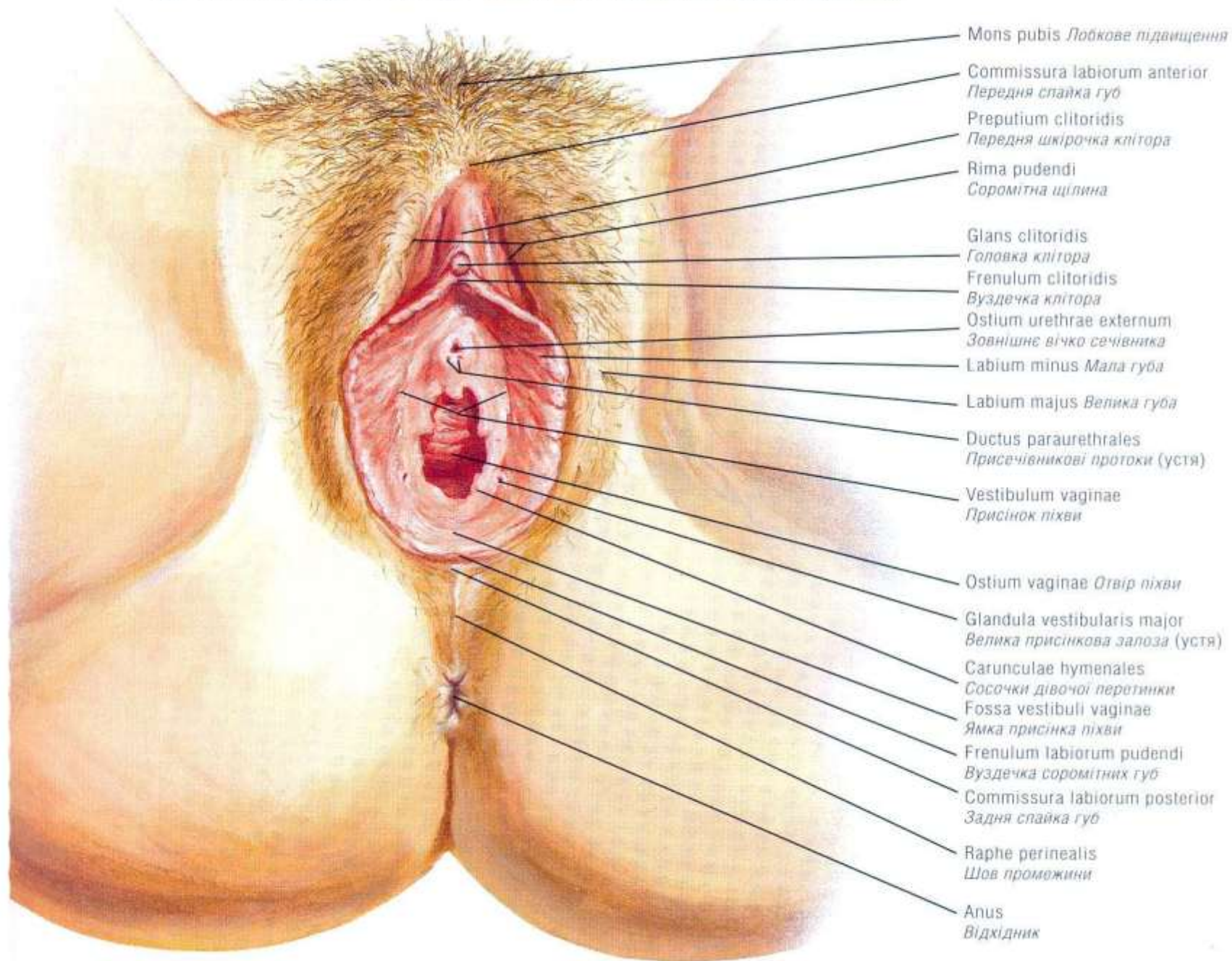


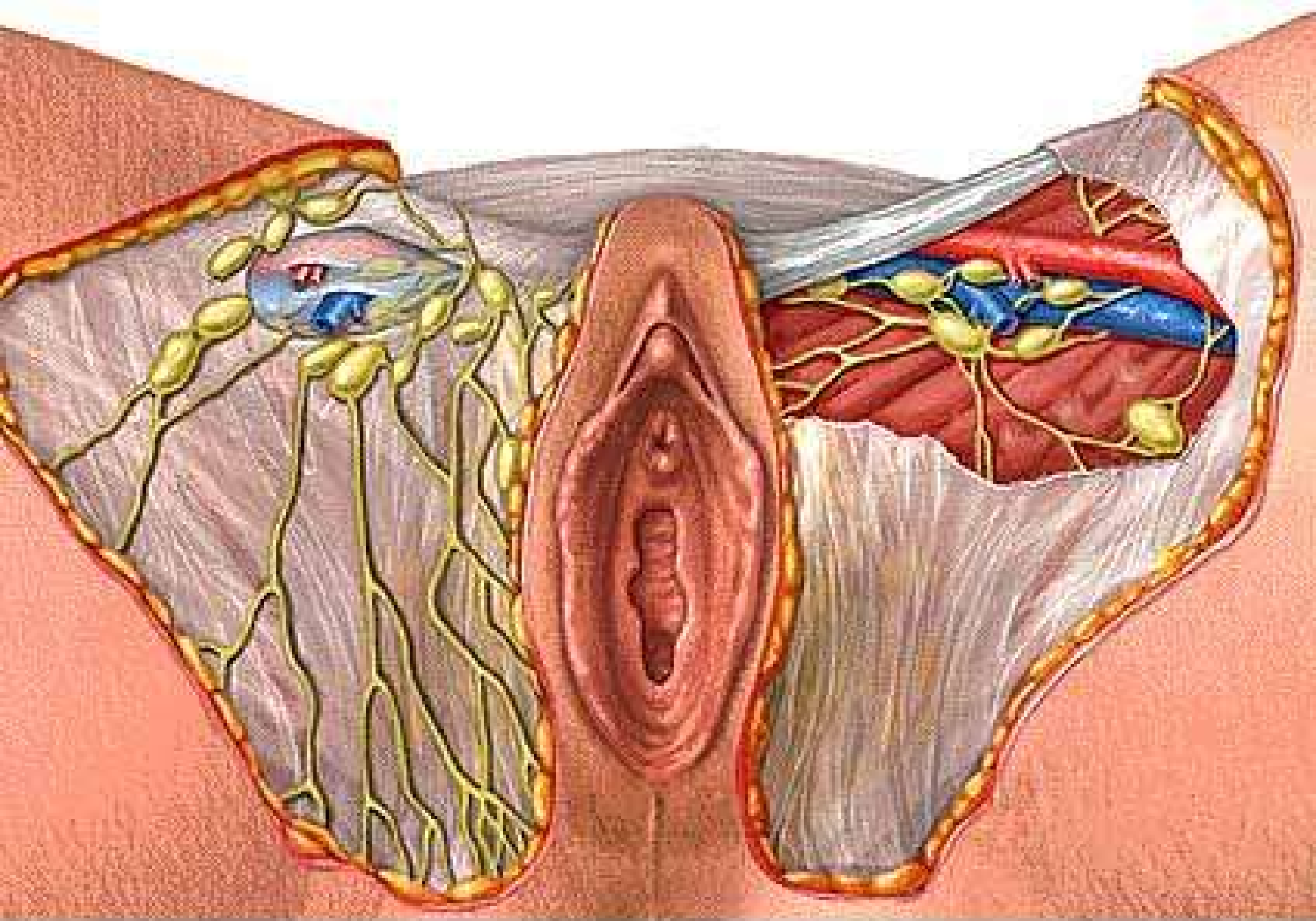
Perineum

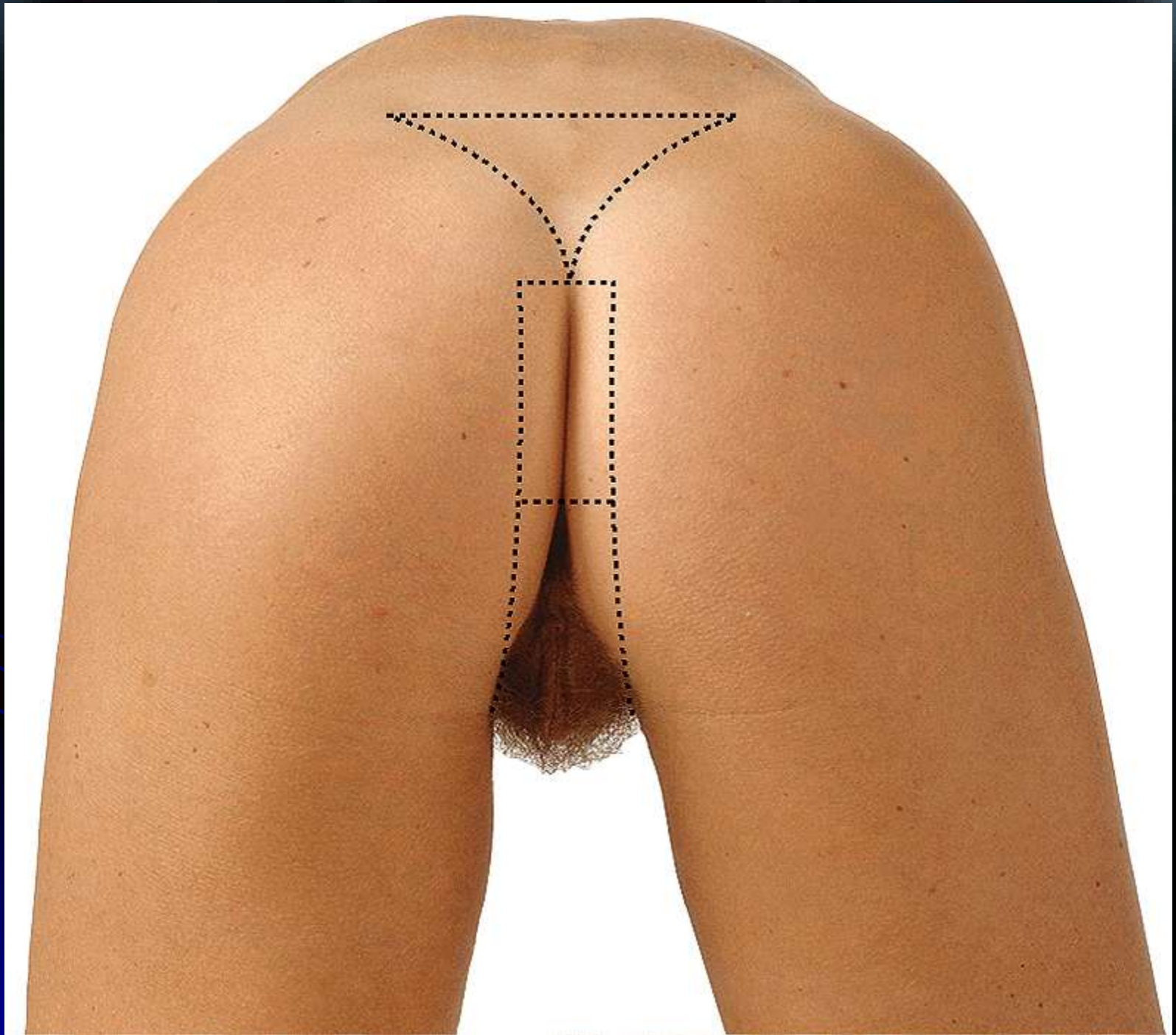




Промежина (perineum) і зовнішні жіночі статеві органи



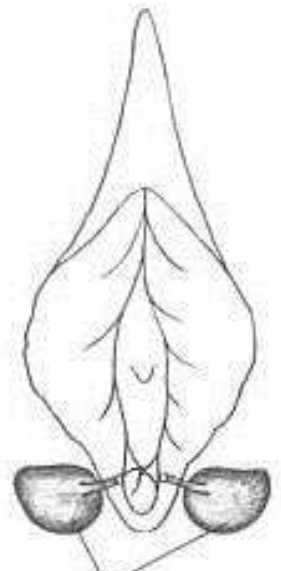




**Vulvitis - an inflammation of
the female genital areas;
vulva.**

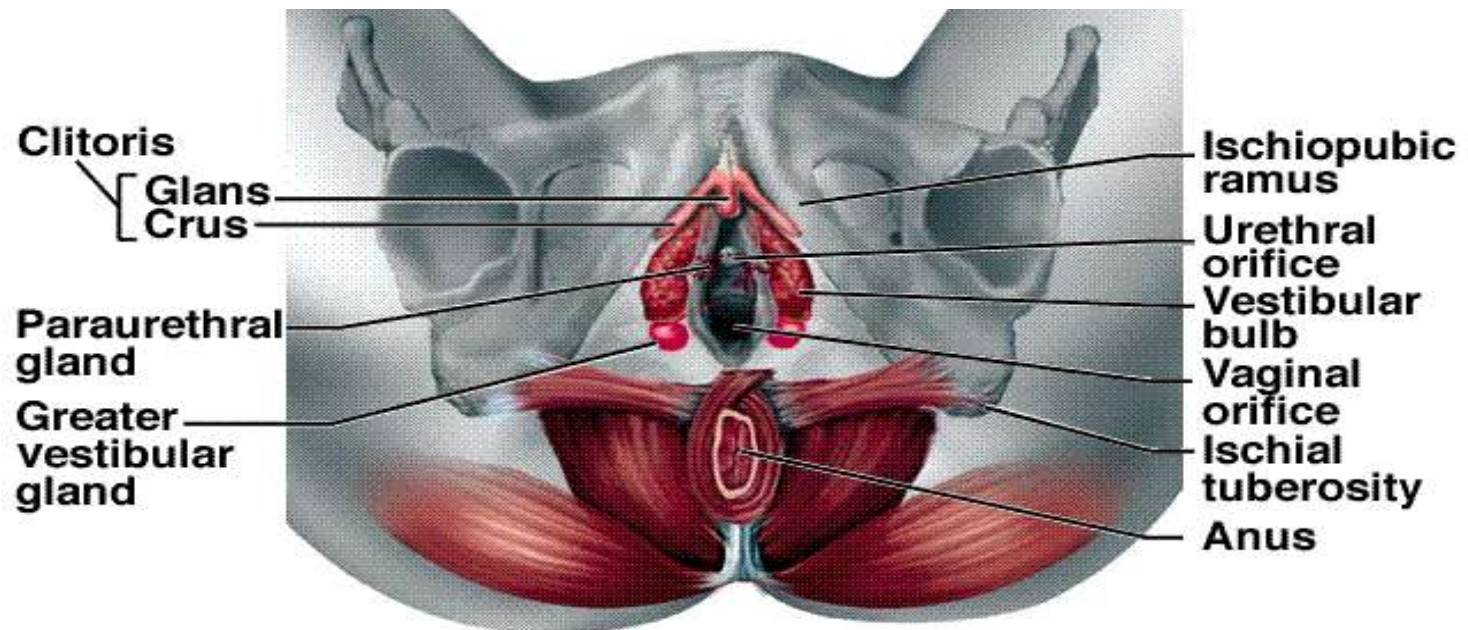


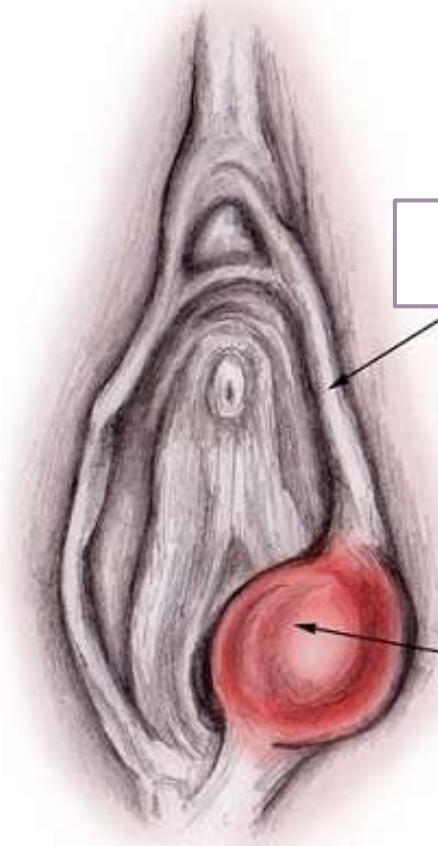
Bartolinitis - inflammation of the Bartholins glands and subcutaneous tissue that surrounds it.



Accessory glands

- opening into the vestibule or lower vagina.
- keep the vagina moist and provide most of the lubrication for intercourse.

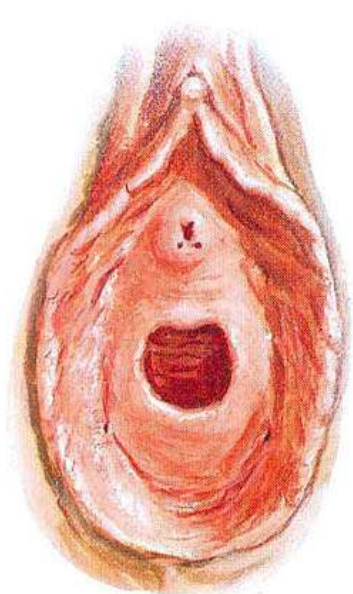




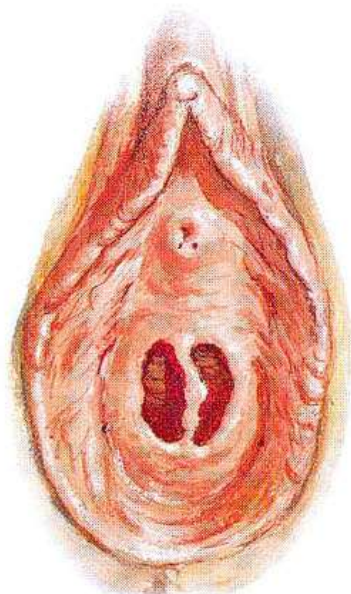
**Малі статеві
губи**

Бартолініт

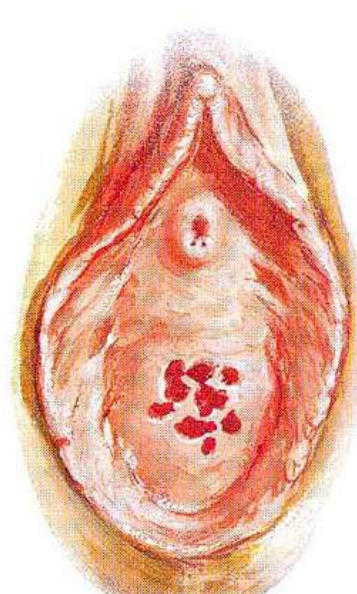
Vaginismus - nervous and mental disease accompanied by painful and uncontrollable muscle contraction of Pelvis.



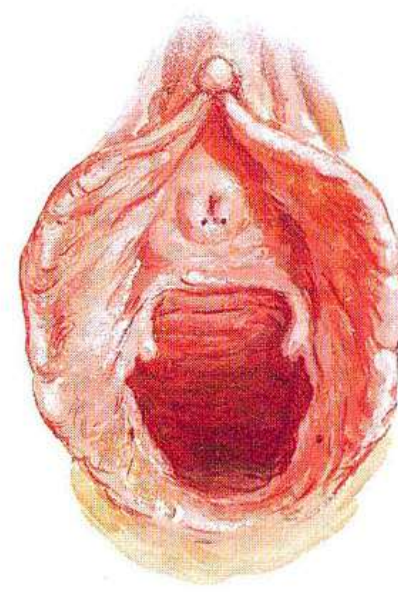
Hymen anularis
Кільцеподібна дівоча
перетинка



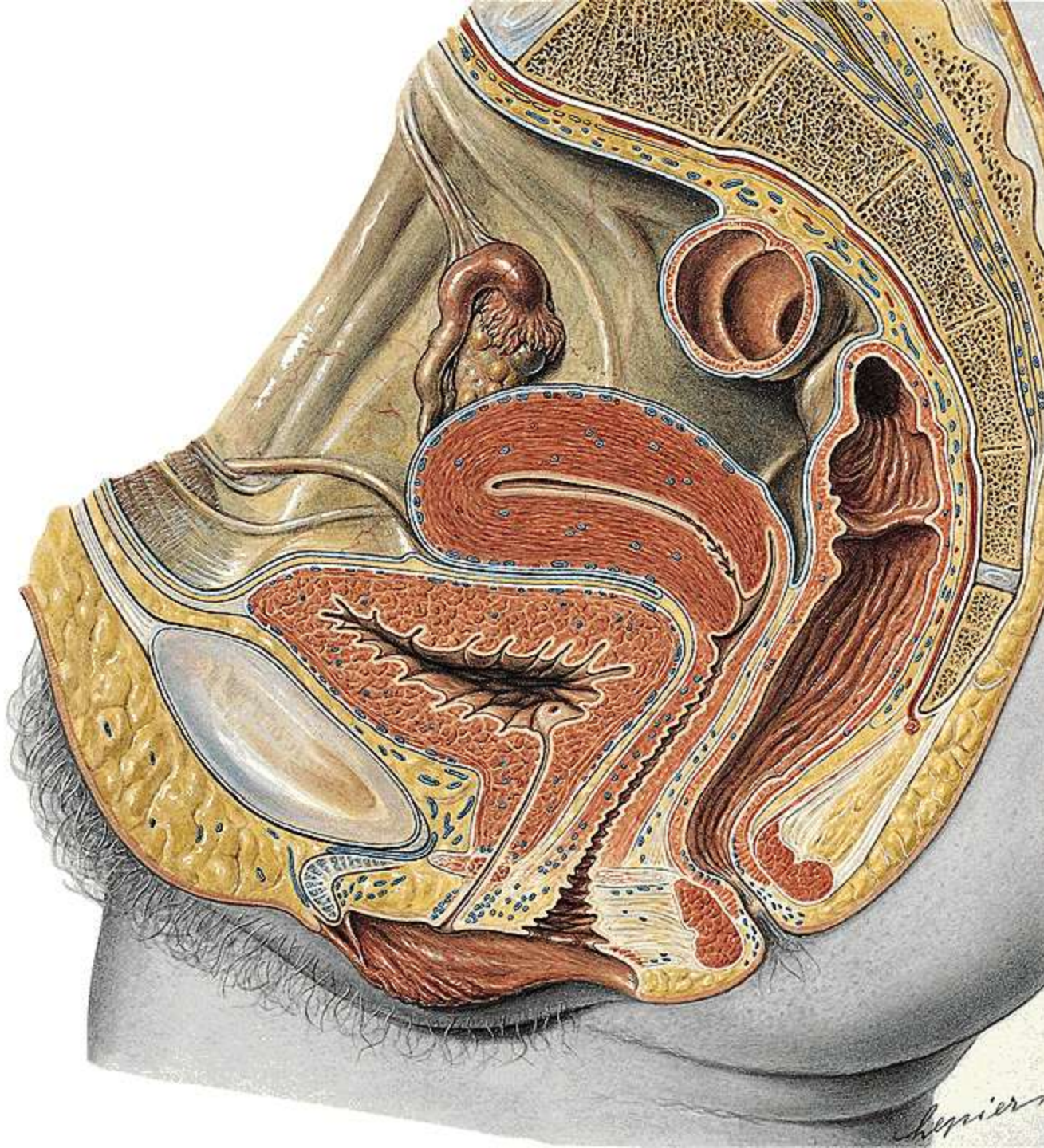
Hymen septus
Перегородчаста дівоча
перетинка



Hymen cribriformis
Решітчаста дівоча
перетинка

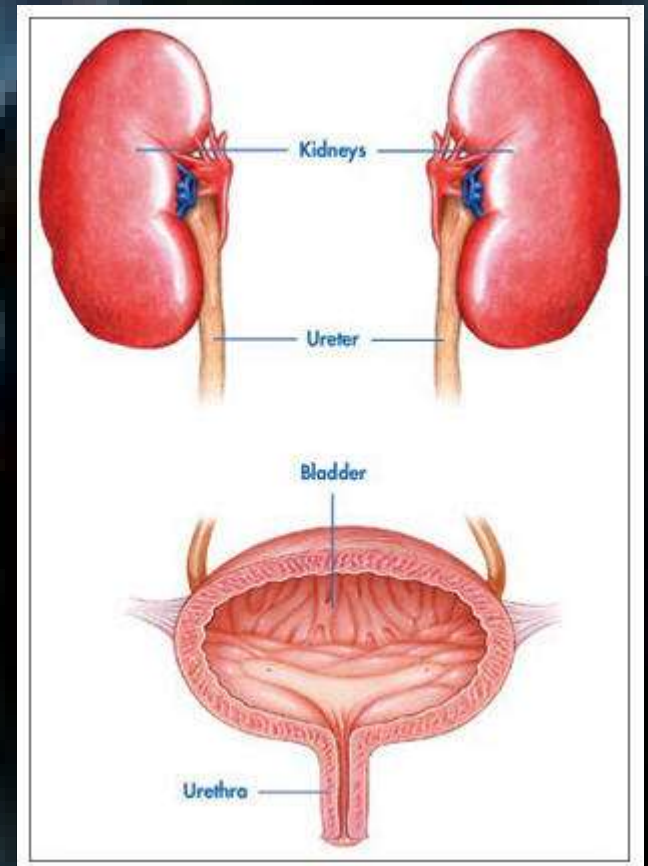


Отвір піхви, що народжувала



BLADDER AND URETHRA

A bladder is a pouch or other flexible enclosure with waterproof or gasproof walls. In the human female, the urethra is about 1-1.5 inches (2.5-4 cm) long and opens in the vulva between the clitoris and the vaginal opening.



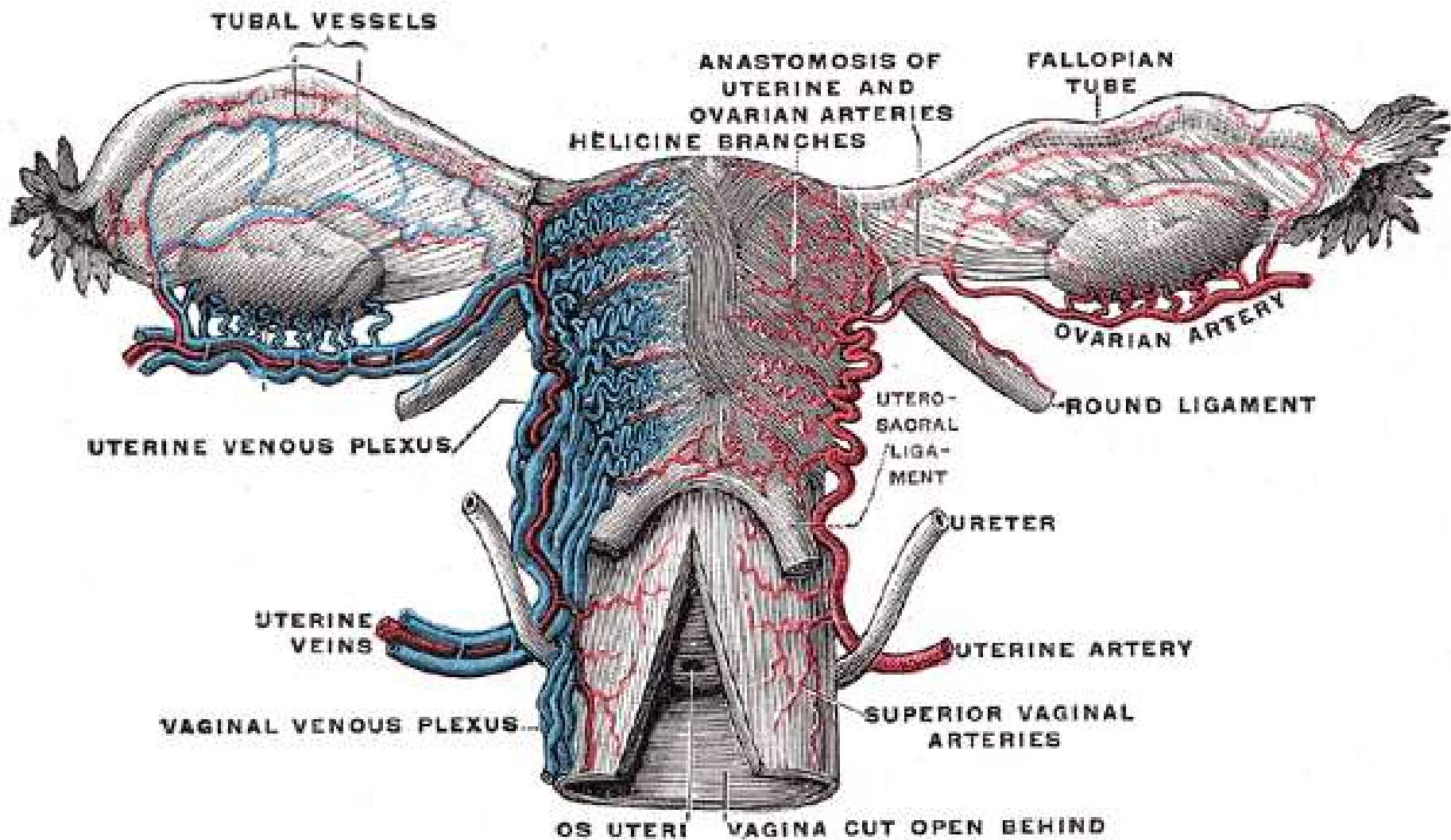
ANOMALIES AND DEVELOPMENT wrong position of female genital mutilation



CLASSIFICATION OF GENITAL ANOMALIES

The following classification provisions genital anomalies into account the clinical forms of displacement of the uterus, vagina and adjacent organs.

Anomalies of the uterus is considered to be its deviations beyond the physiological and disruption relationship between its separate parts, body and cervix.



I. Uterine displacement on the vertical axis (up and down)

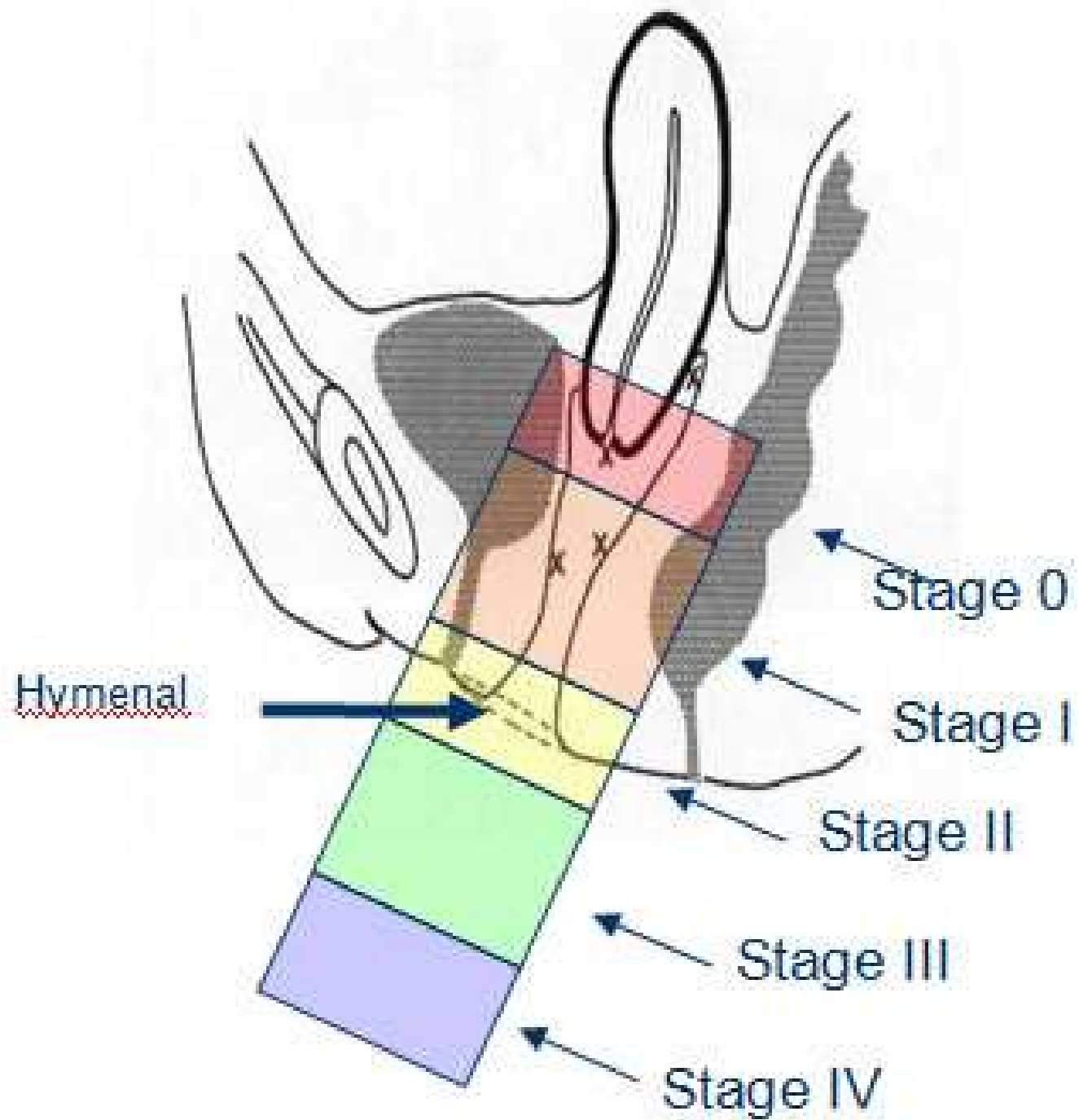
I. Uterine displacement on the vertical axis (up and down)

1. Raising UTERUS (ELEVATIO UTERI).

The uterus is displaced upwards, its bottom is placed above the plane of the entrance to the pelvis, vaginal portion of the cervix - above the spinal line; during vaginal examination the uterus was difficult to be achieved.

I. Uterine displacement on the vertical axis (up and down)

2. Omission UTERUS (DESCENSUS UTERI). The uterus is below normal levels, vaginal portion of the cervix (external eye) - lower spinal line, but with no gender gap appears even when natuzhuvanni.





Опущение матки 1 степени



Опущение матки 2 степени



Опущение матки 3 степени



Опущение матки 4 степени

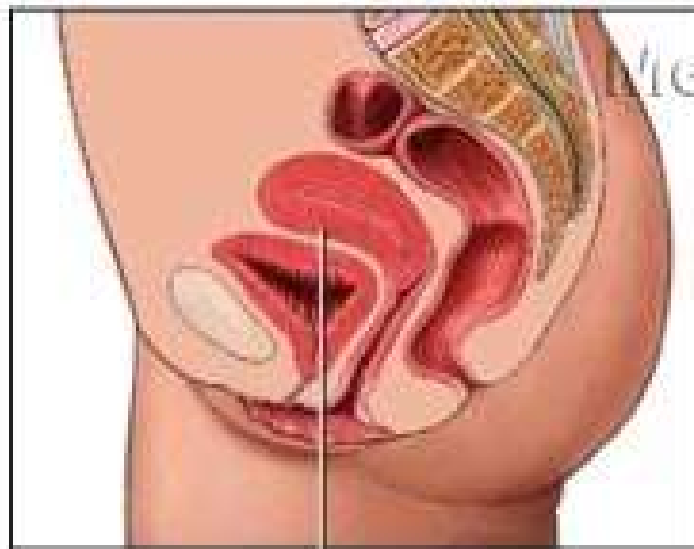
I. Uterine displacement on the vertical axis (up and down)

3. UTERINE loss (PROLAPSUS UTERI). The uterus is shifted down, partially or completely beyond the genital slit. There are full and partial loss of the uterus.

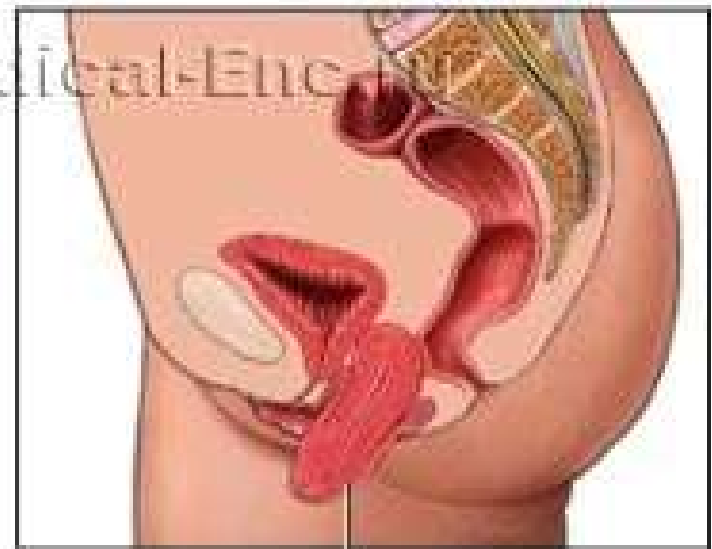
Incomplete loss UTERUS of the gender gap. So only the vaginal portion of the cervix, uterine body is placed outside the gender gap, sometimes there may be a lengthening of the cervix (elongatio colli uteri).



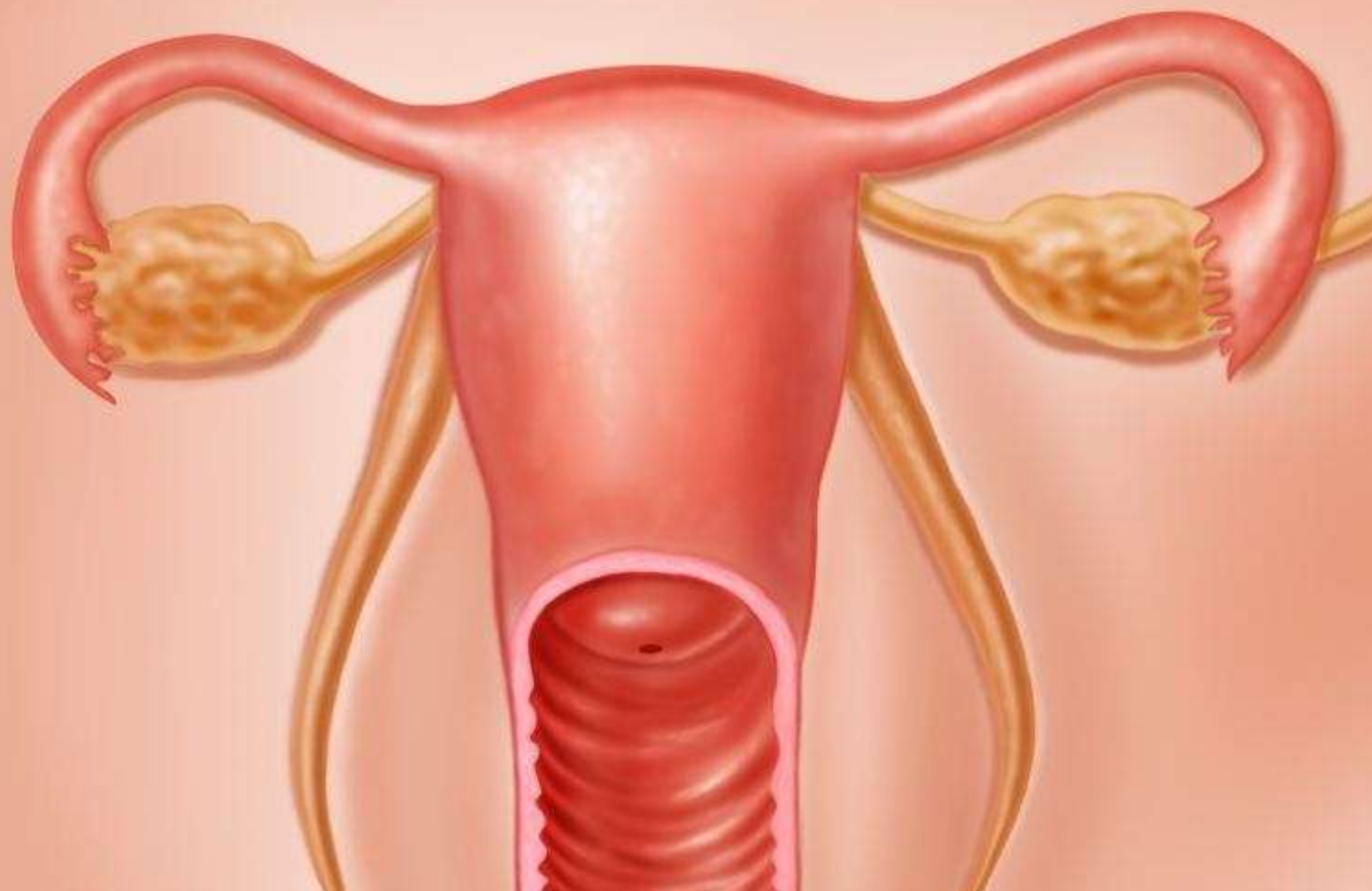
- **Complete uterine prolapse - neck and body of the uterus located below the gender gap that is usually accompanied by a loss of the vagina. This extension of the cervix is not found, the correlation between the body of the uterus and cervix saved.**



матка



выпадение матки



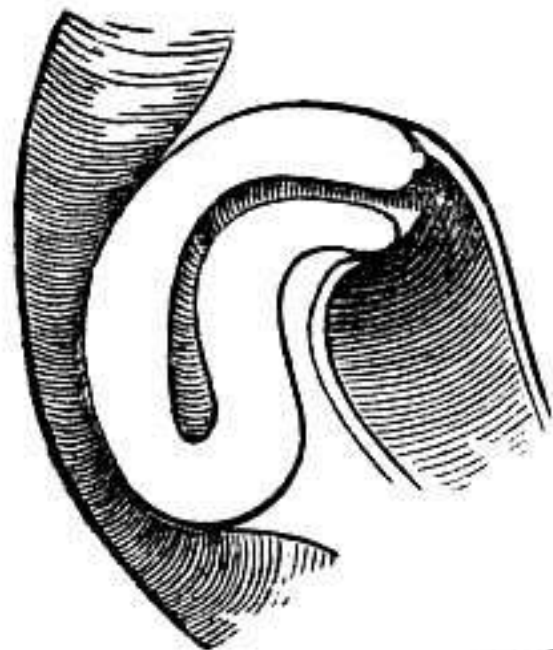
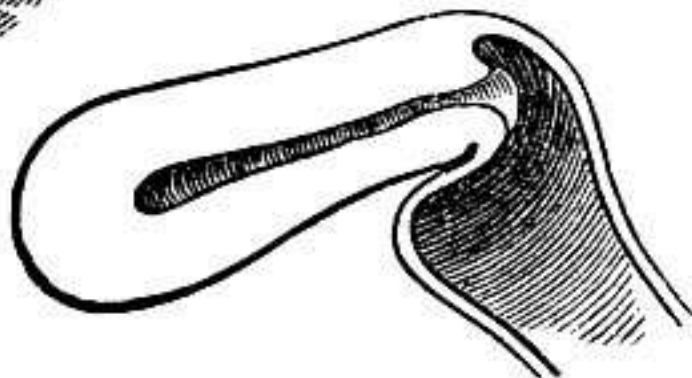
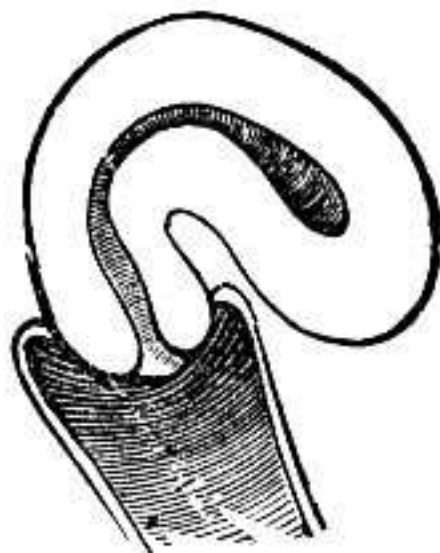
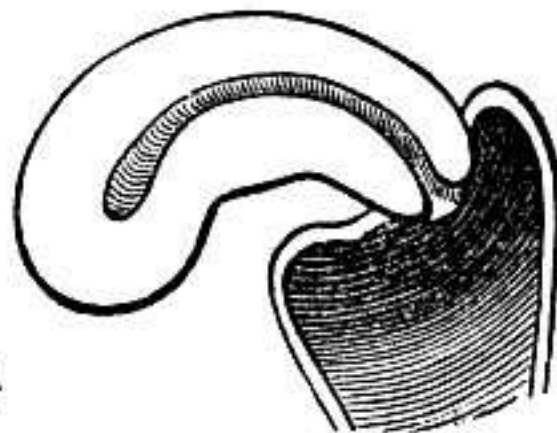


II. Uterine displacement on the horizontal axis

Uterine displacement on the horizontal axis.

4 types of displacement of the entire uterus (body and neck) with regard to leading axis pelvis (positio uteri):

- 1. Antepositio - the whole uterus is displaced anteriorly.**
- 2. Retropositio - uterus is displaced posteriorly.**
- 3. Dextropositio - uterus is displaced to the right.**
- 4. Sinistropositio - uterus is shifted to the left.**

a*b**c**d**e*

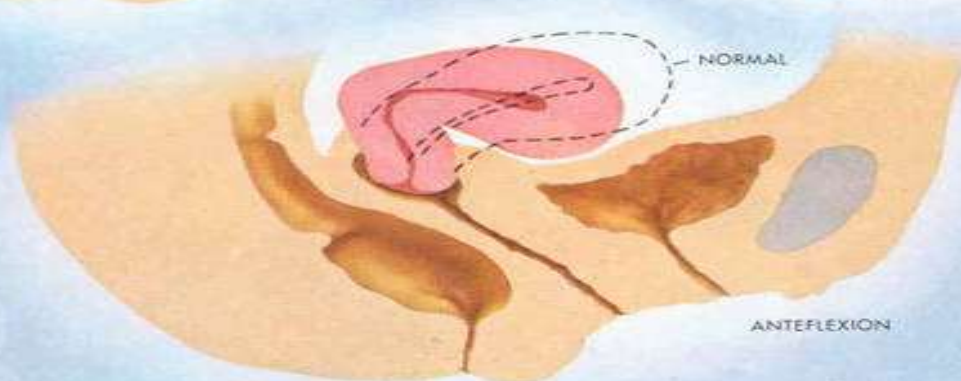
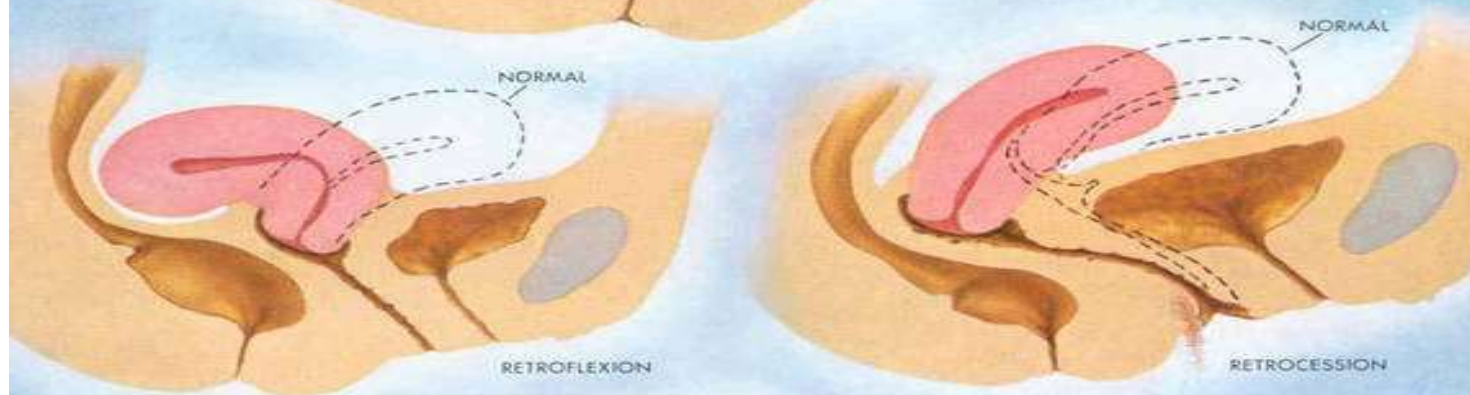
III. The slope of the UTERUS (VERSIO UTERI)

III. The slope of the UTERUS (VERSIO UTERI)

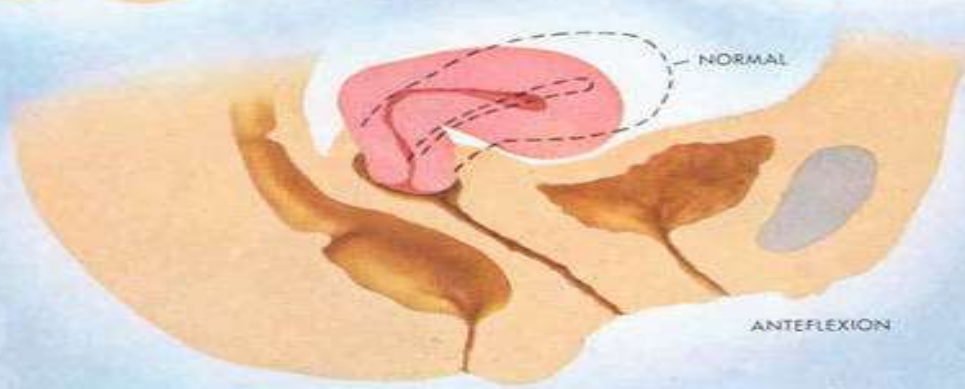
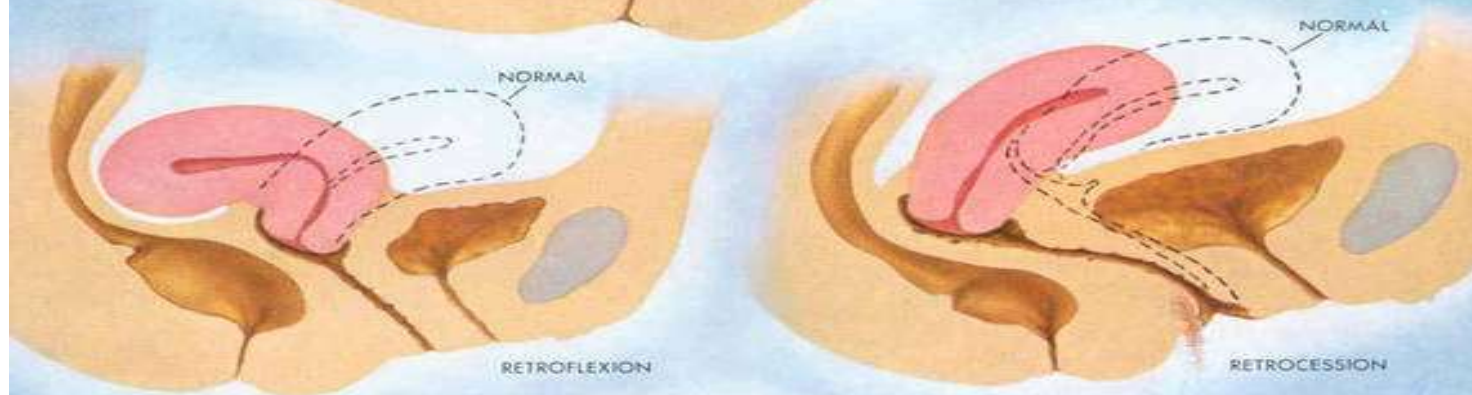
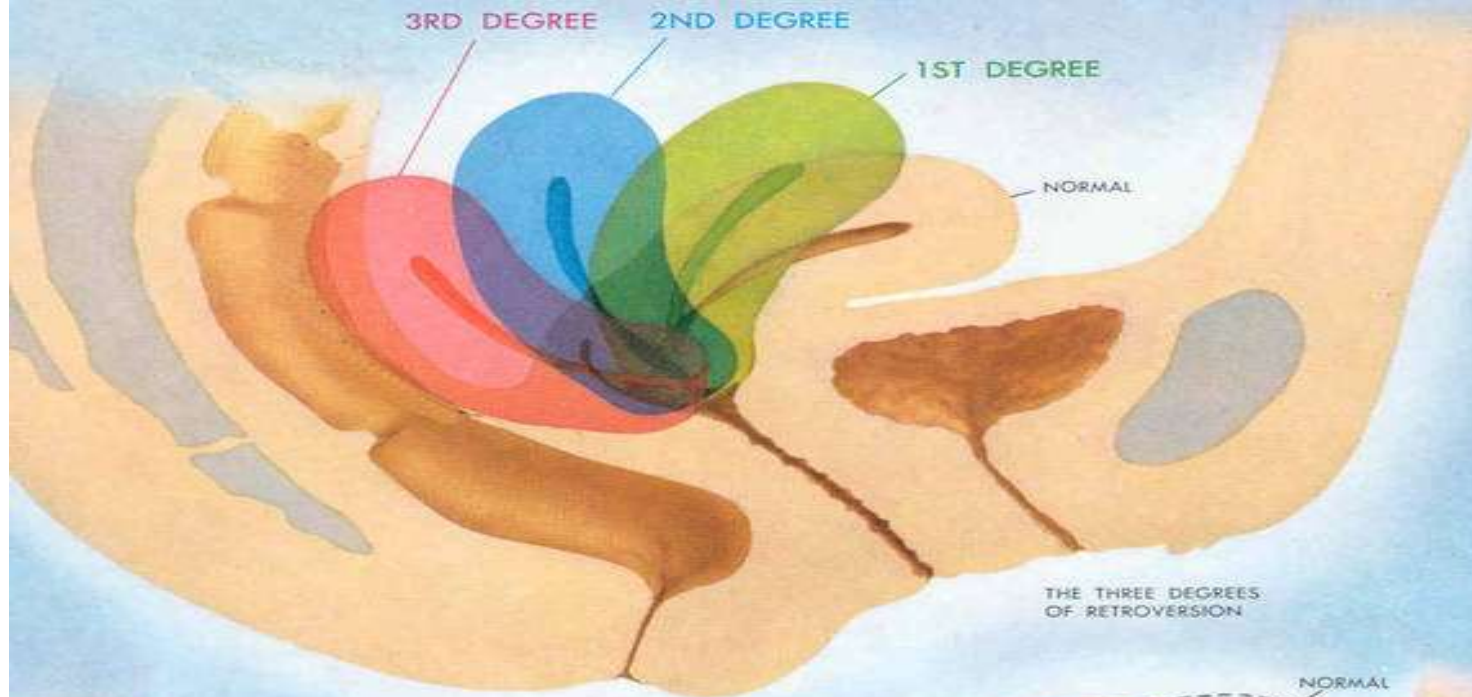
The body of the uterus is displaced to one side, the cervix - the opposite. _ At physiological anteversio uterine body refused to front and top to bottom, the cervix - backwards and downwards in the vertical position of the woman placed the body of the uterus above the cervix.

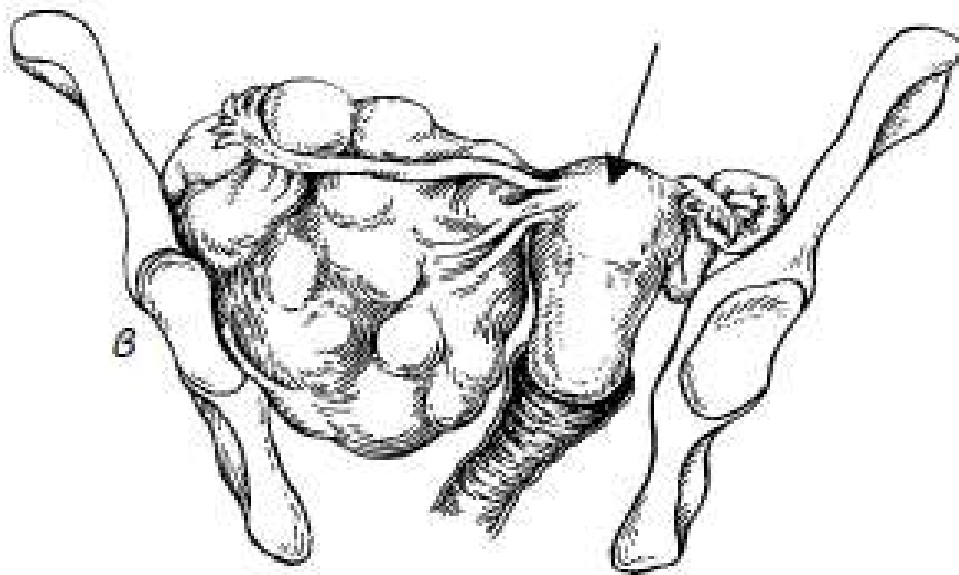
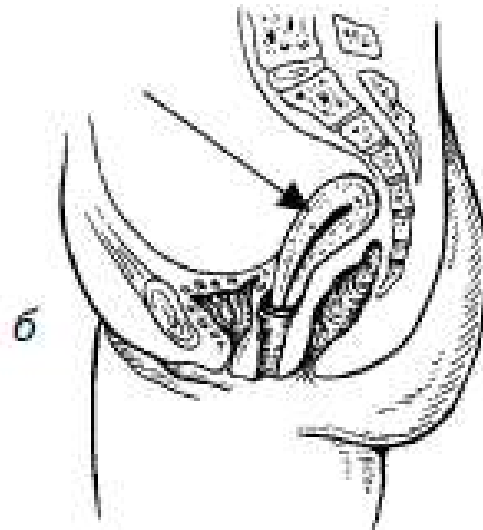
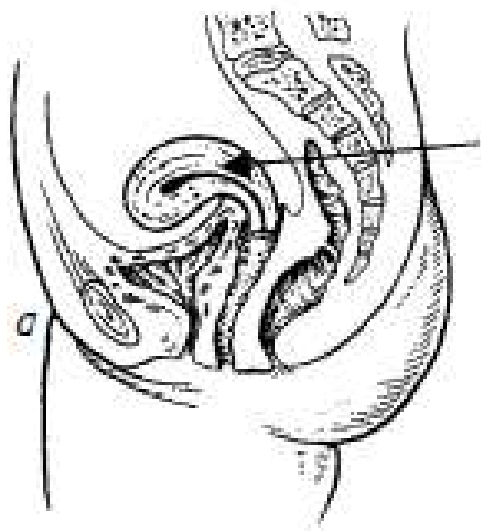
III. The slope of the UTERUS (VERSIO UTERI)

The pathological inclination of the uterus: _
a) anteversio be pathological if it remains stationary, and expressed so much that the body of the uterus is directed anteriorly and downward, and neck - backwards and upwards. _ b) dextroversio - uterine body is directed to the right and upwards, neck - right and down. _ a) sinistroversio - uterine body is directed to the left and up, neck - left and down



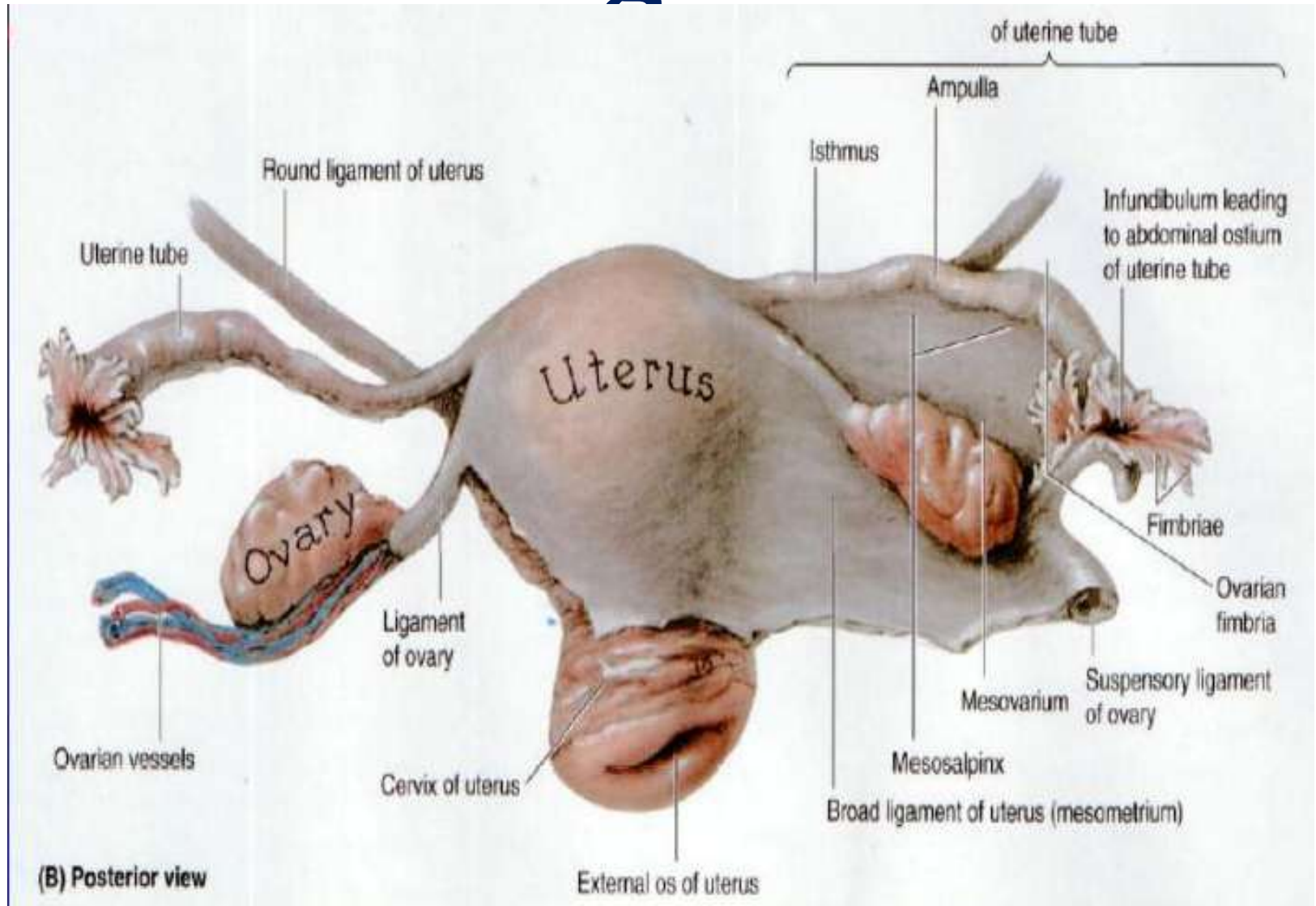
IV. UTERINE bend



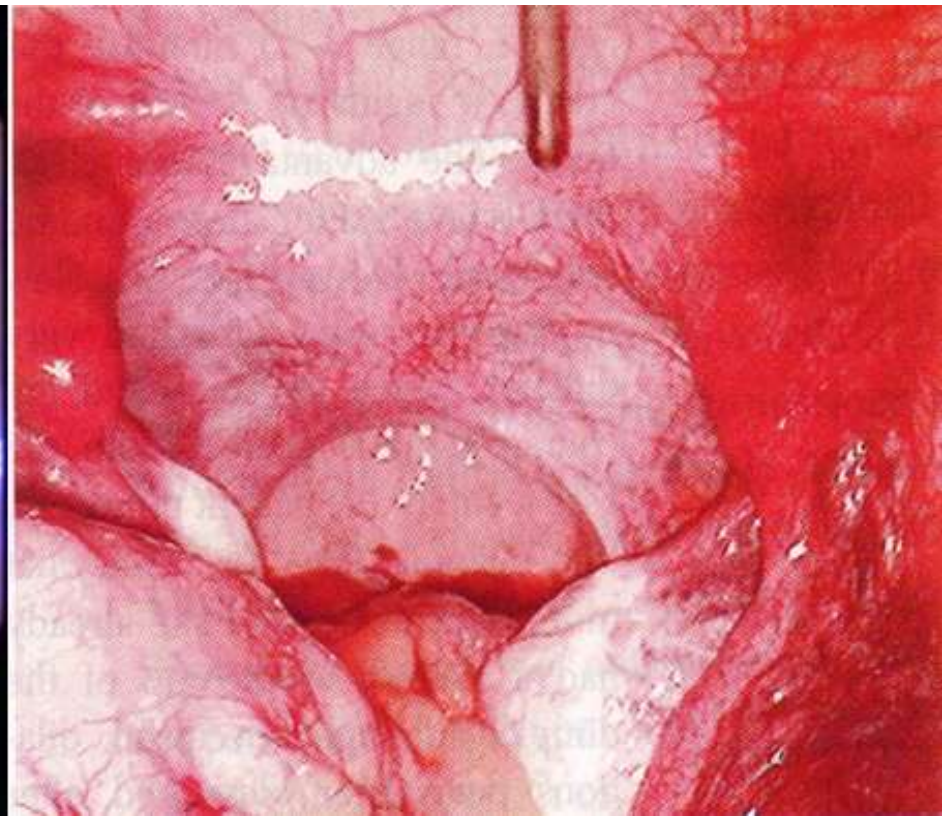


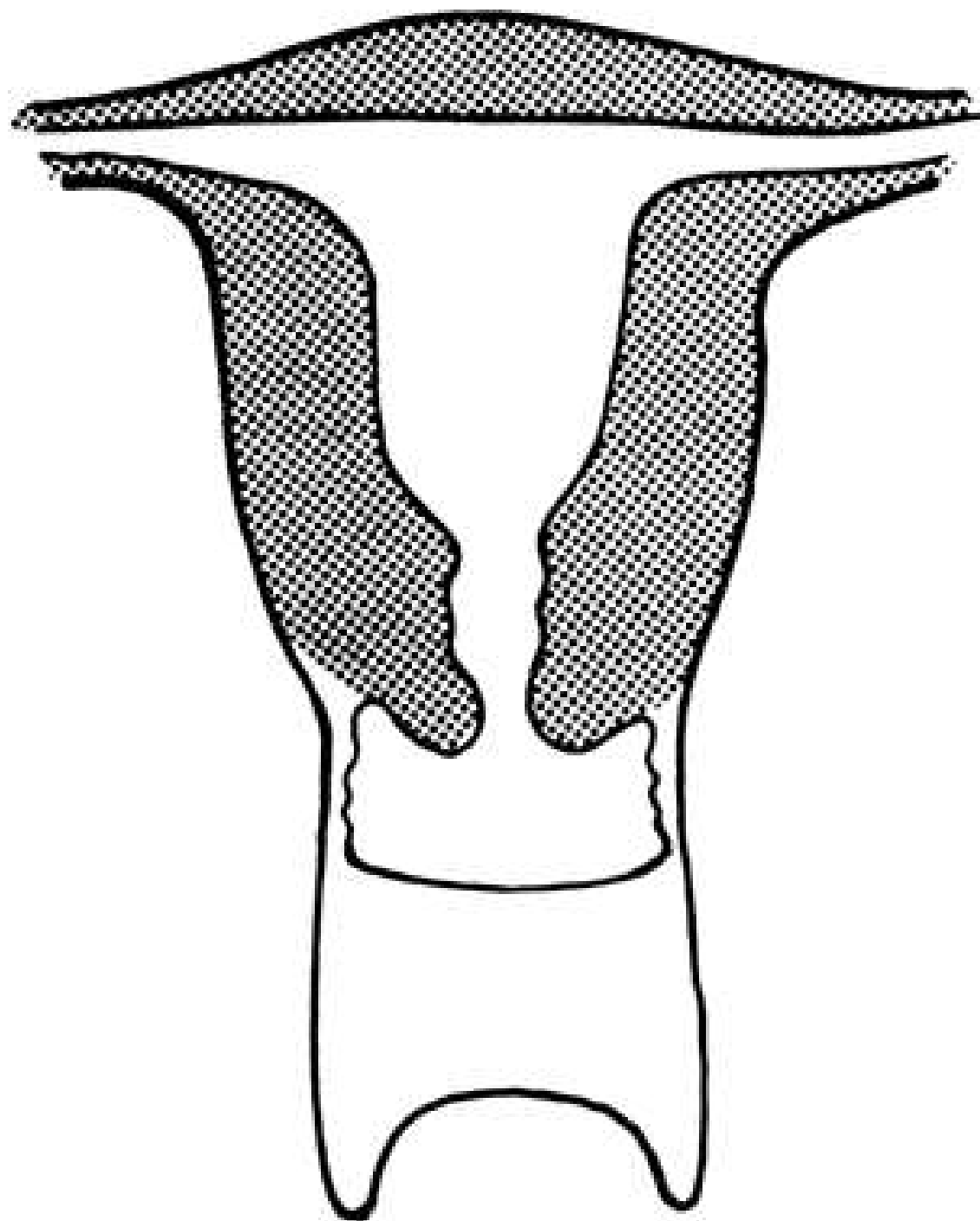
а - зміщення матки допереду; б - зміщення матки назад; в - зсув вліво (у зв'язку з розвитком пухлини яєчників); г - загин матки

ANOMALIES OF uterus and vagina



The complete absence of the vagina (aplasia vaginae) is due to underdevelopment of the lower divisions Muller moves.





Матка/Соботя 4

V5-9

Тим 0.3

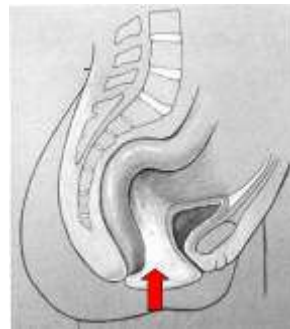
П. 1. М. 30 / П. 10 / С. 1 / Поверхность/С. 1 / Поверхность/С. 1



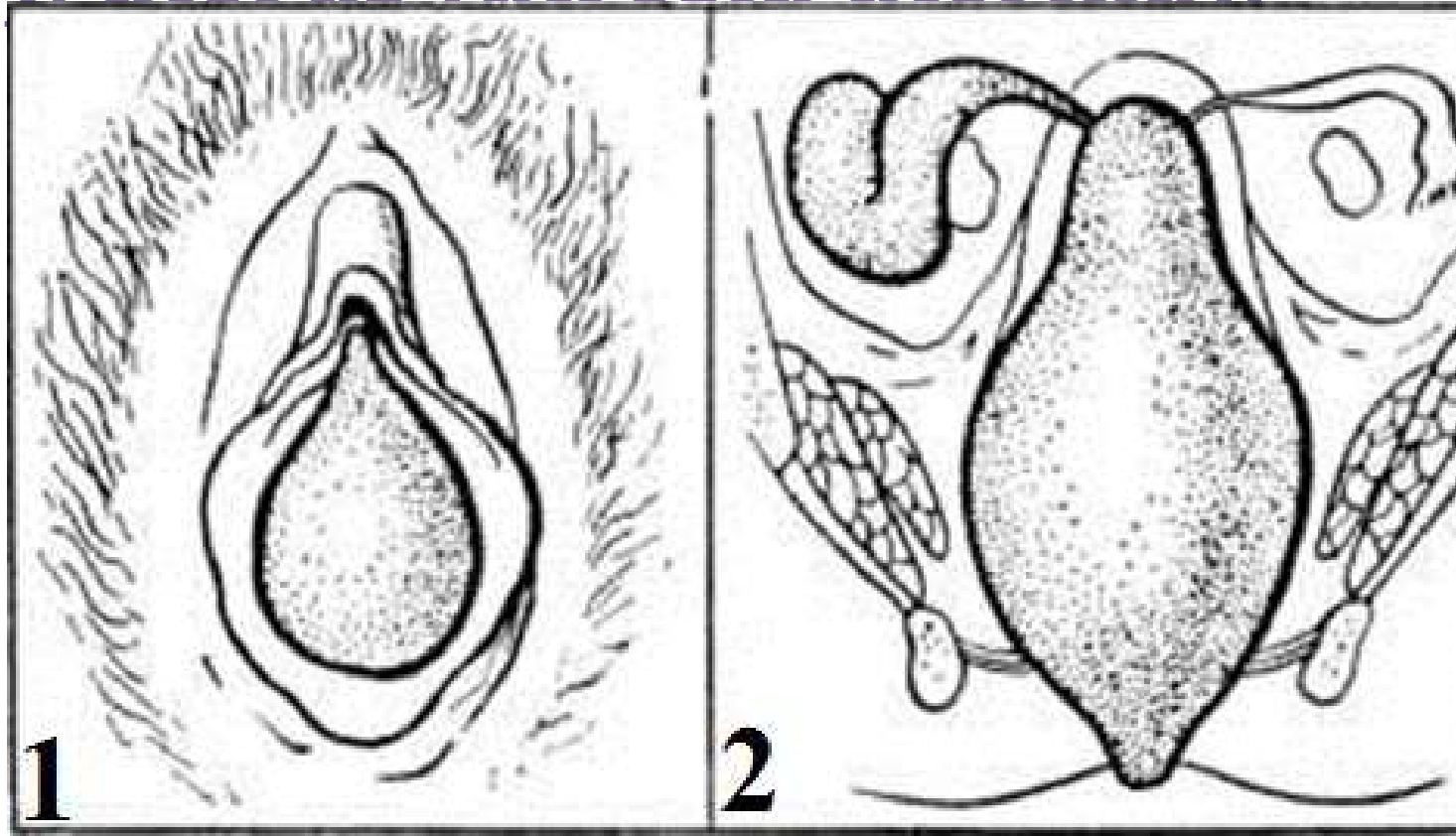
Atresia of the vagina

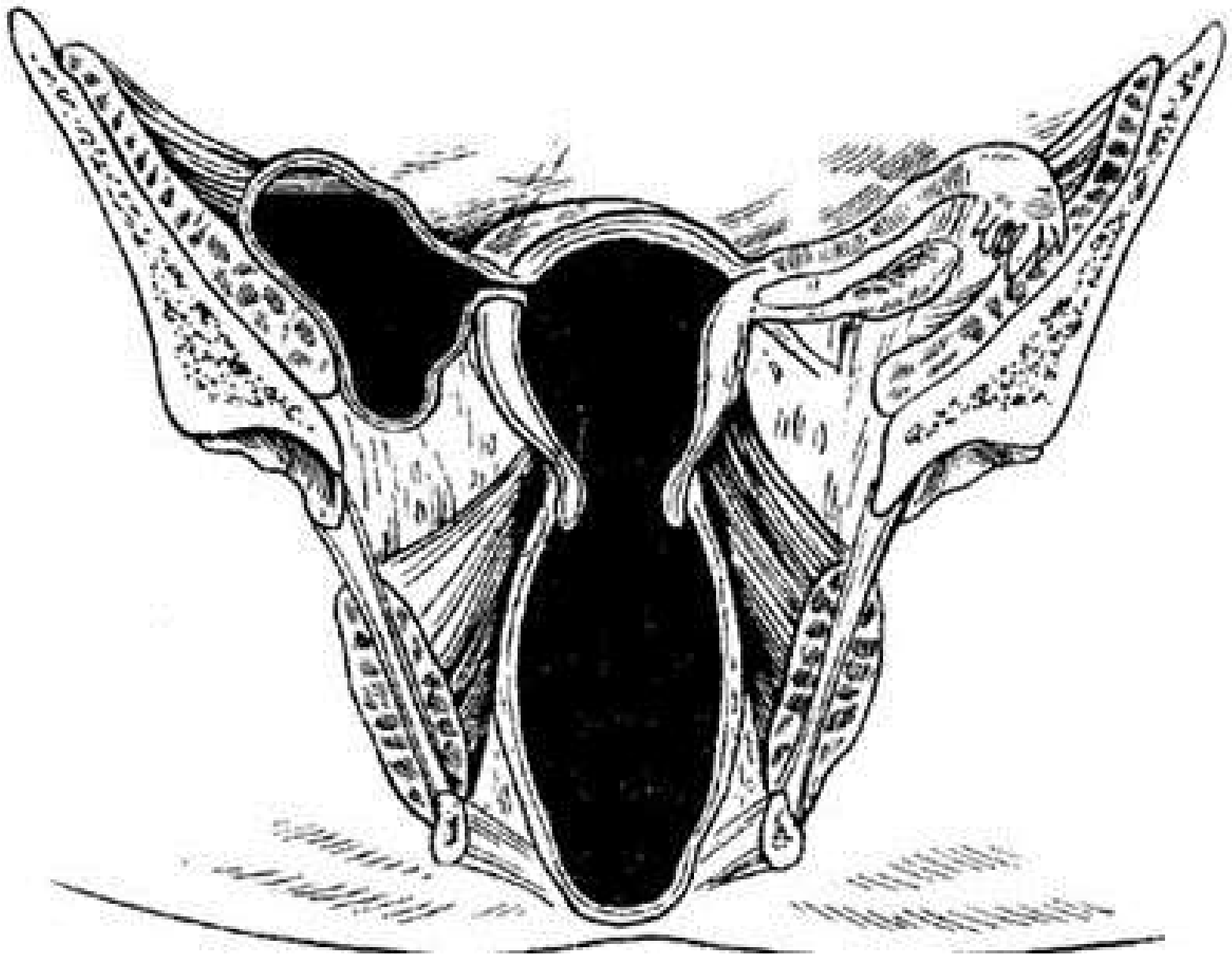


Atresia of vagina



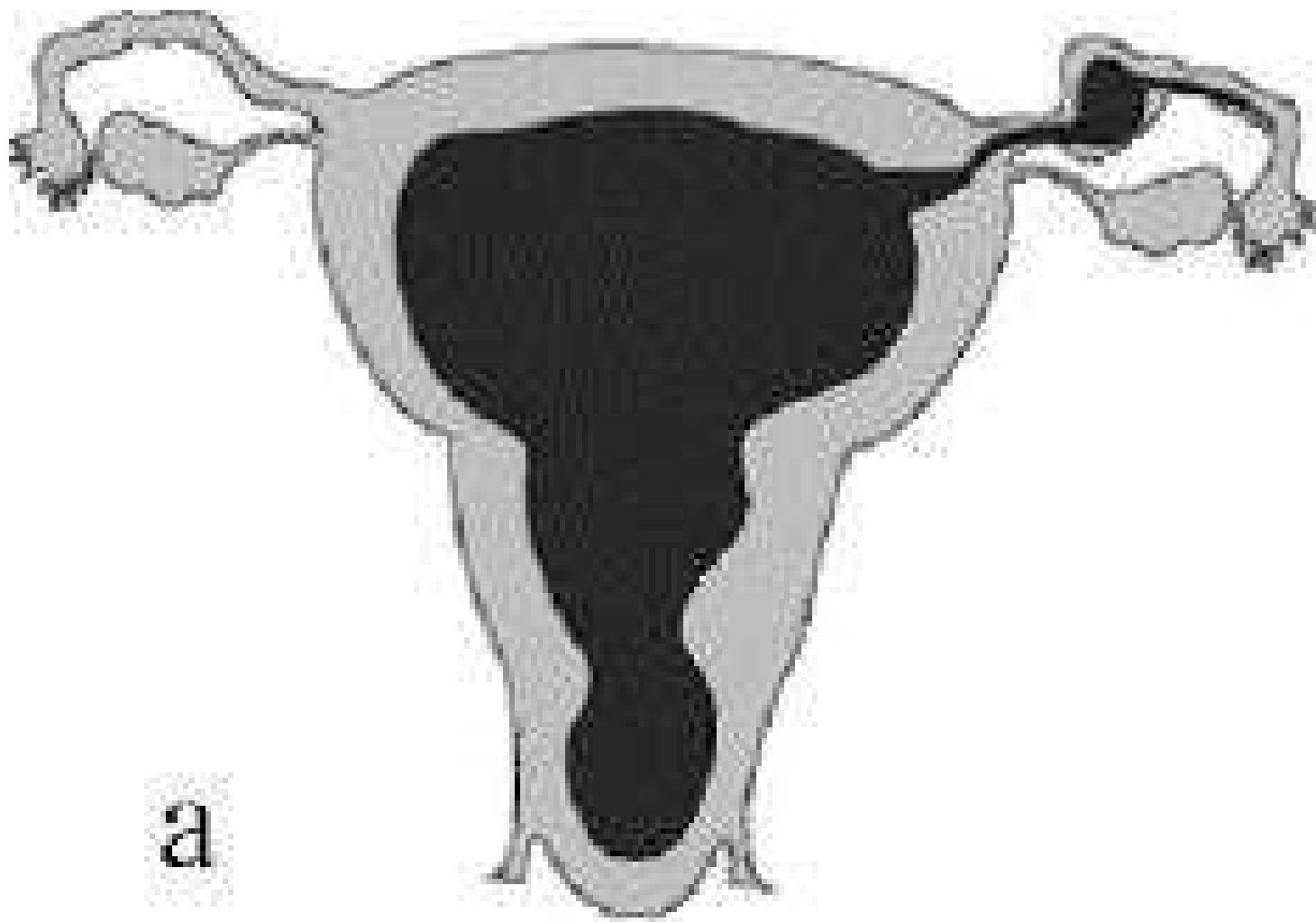
HINATREZIYA- sexual abuse patency of the channel in the region of the hymen (atresia hymenalis), vagina (atresia vaginalis), uterus (atresia uterina).





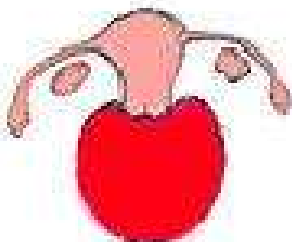
Atresia hymen.
Hematokolpos. Hematometra. Hematosalpinx.

Atresia hymen is only present with the onset of puberty, when it turns absence of menstruation. The blood released during menstruation, accumulates in the vagina, stretching its walls (haematocolpos). Overwhelmed tumor blood vagina takes shape, the upper pole which along with the uterus is placed above the plane of the entrance to a small bowl.



a

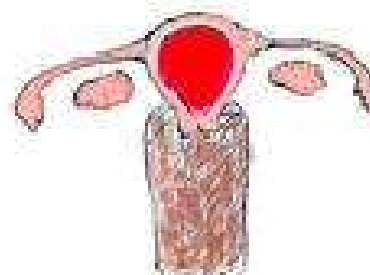
1. Атрезия гимена



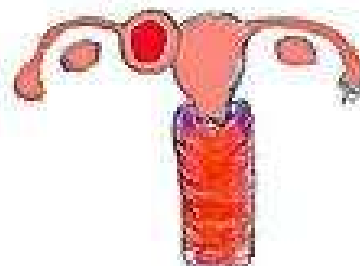
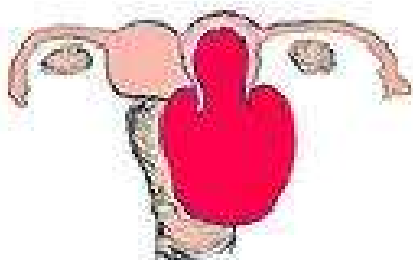
2. Аплазия влагалища и матки

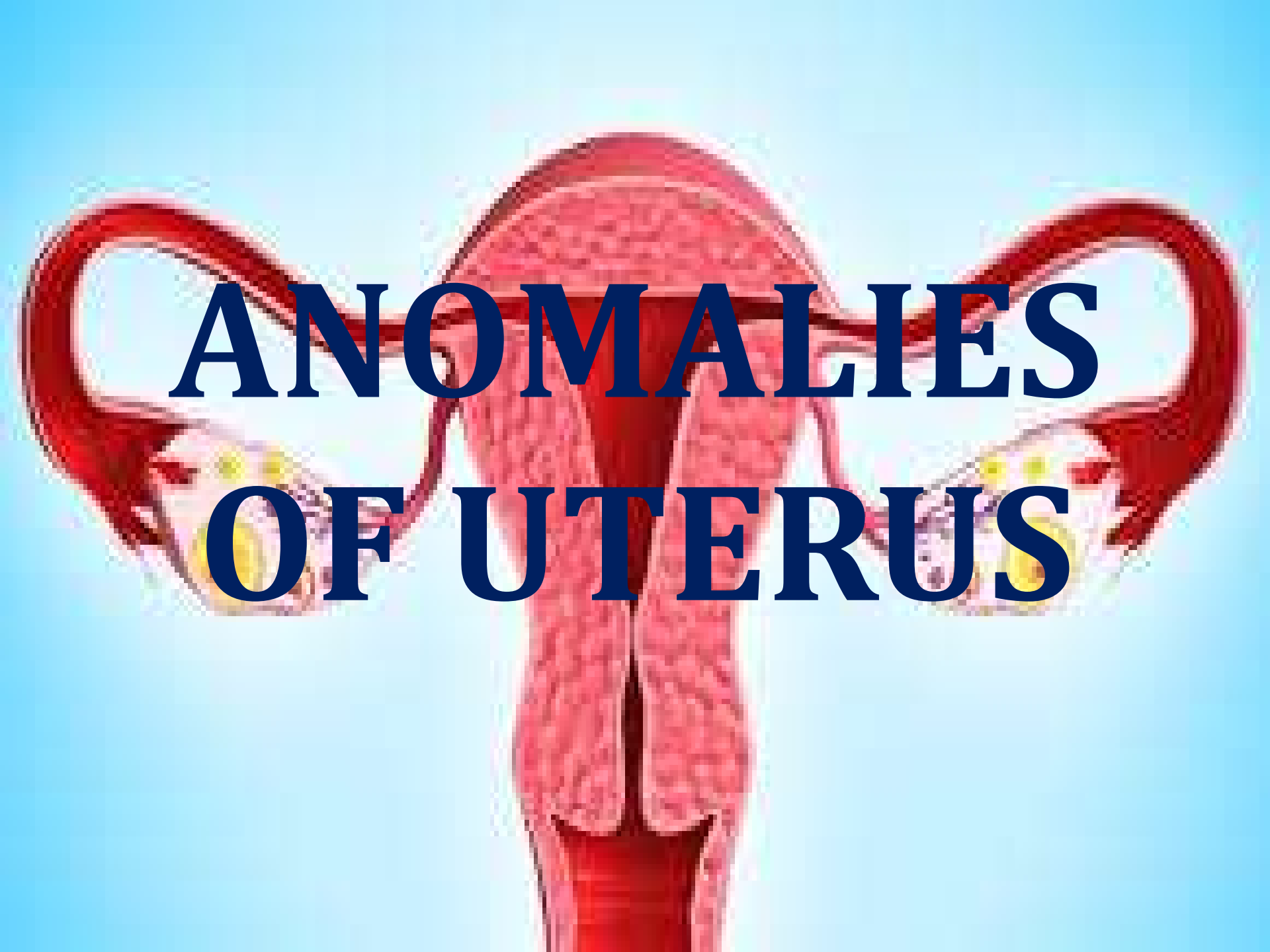


3. Частичная или полная аплазия влагалища при функционирующей матке



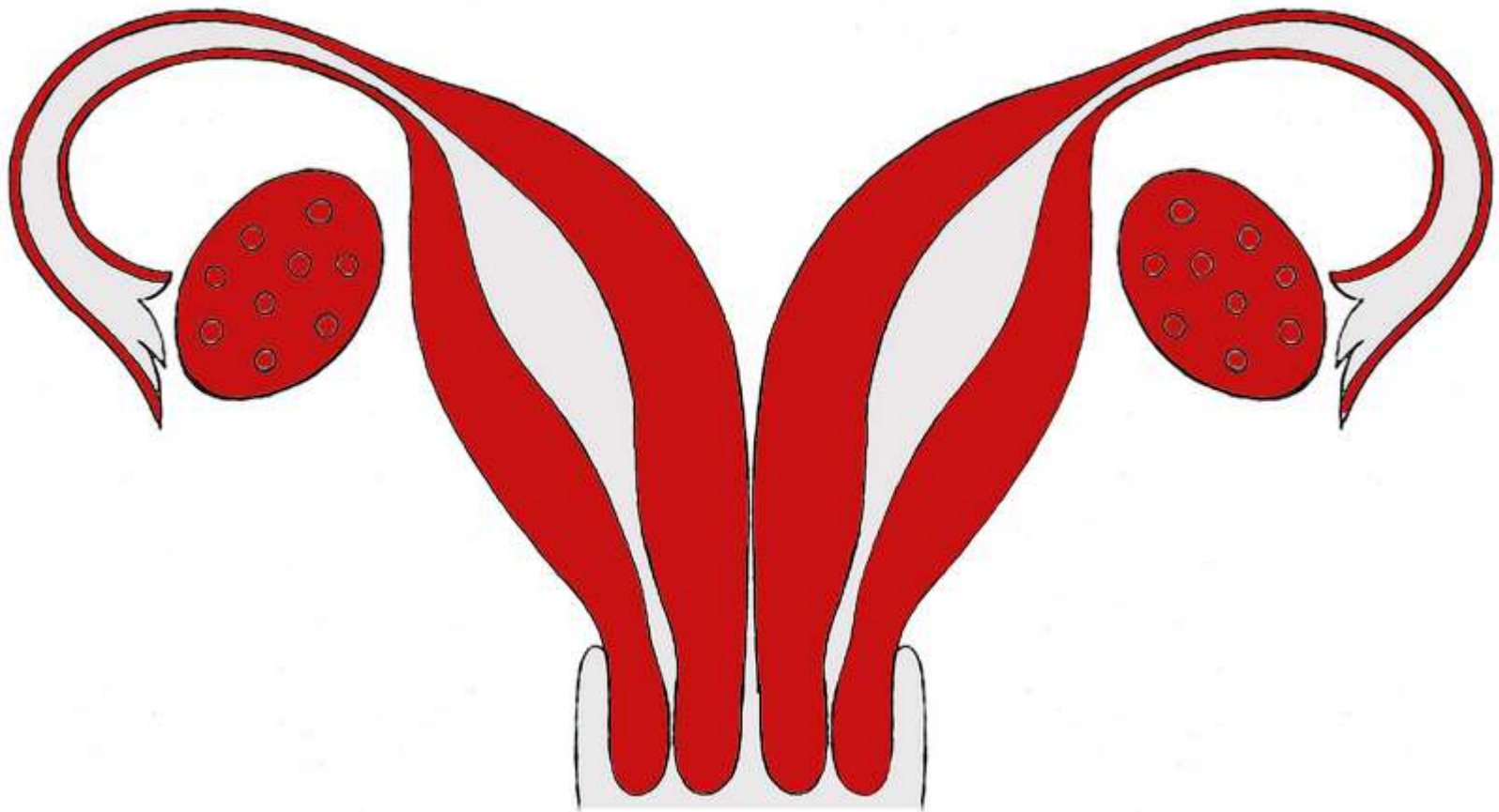
4. Удвоение влагалища и матки с частичной или полной аплазией одного из влагалищ



An anatomical illustration of a female reproductive system, specifically focusing on the uterus and fallopian tubes. The uterus is depicted in a reddish-pink color, showing a central longitudinal groove. The fallopian tubes are shown on either side, with a distinct loop or kink on the left side, suggesting a uterine anomaly. The background is a light blue gradient. Overlaid on the image is the text "ANOMALIES OF UTERUS" in a large, bold, dark blue serif font.

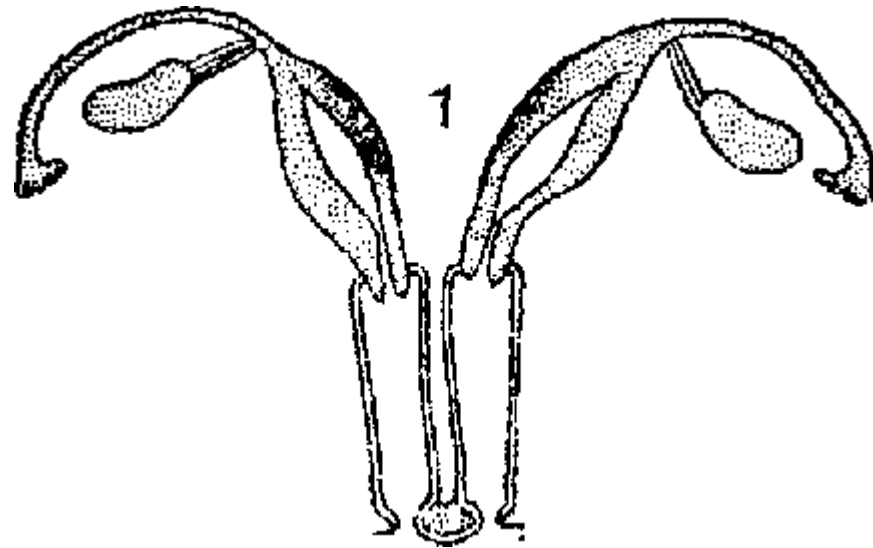
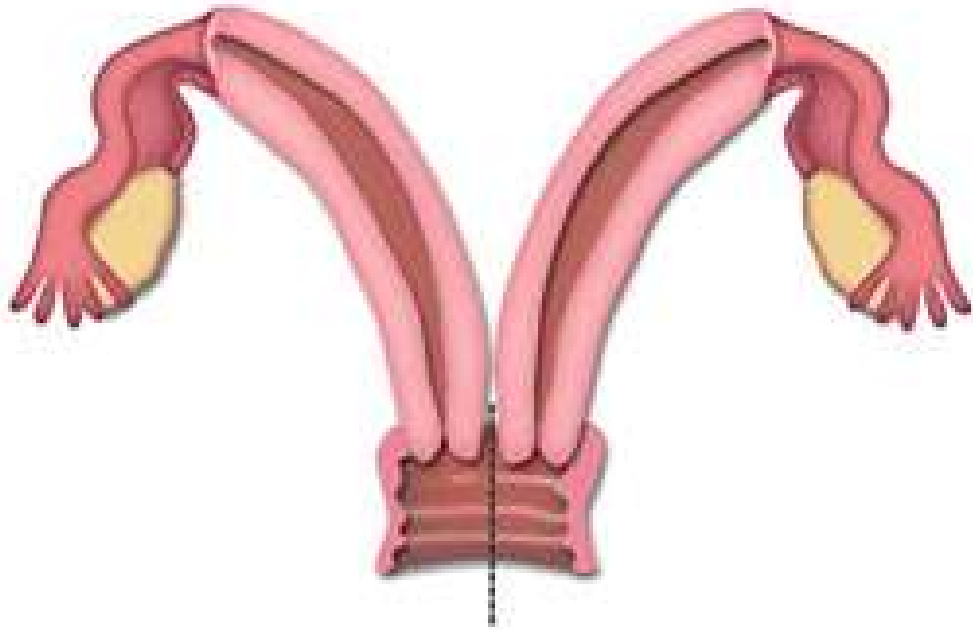
ANOMALIES OF UTERUS

**Doubling the uterus and vagina resulting
from disruption of connection sections
Muller ducts, which are formed during
normal embryogenesis uterus and vagina**



UTERUS DIDELPHYS - the presence of two distinct genitalia: two females (each have one tube and one ovary) two necks, two vagina. The uterus and vagina are placed separately, are between the bladder and the rectum.

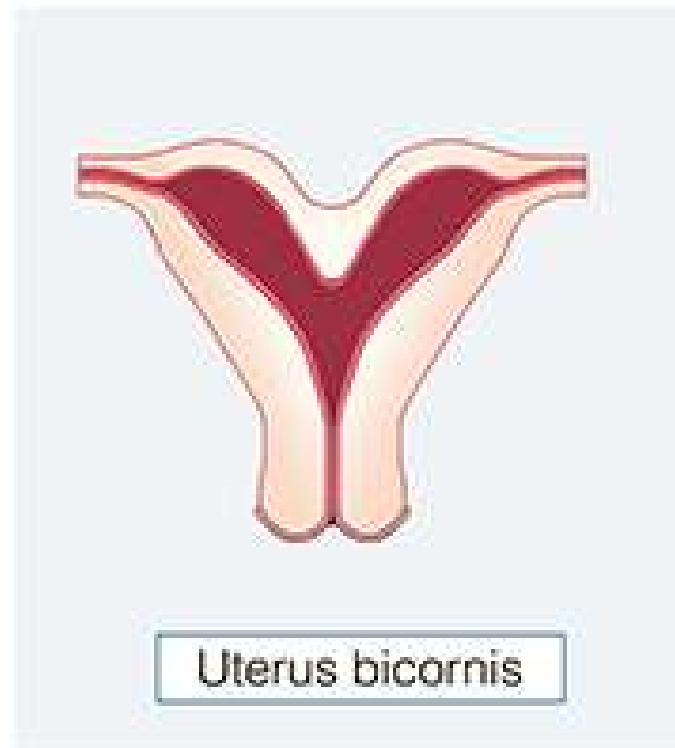
Uterus didelphys



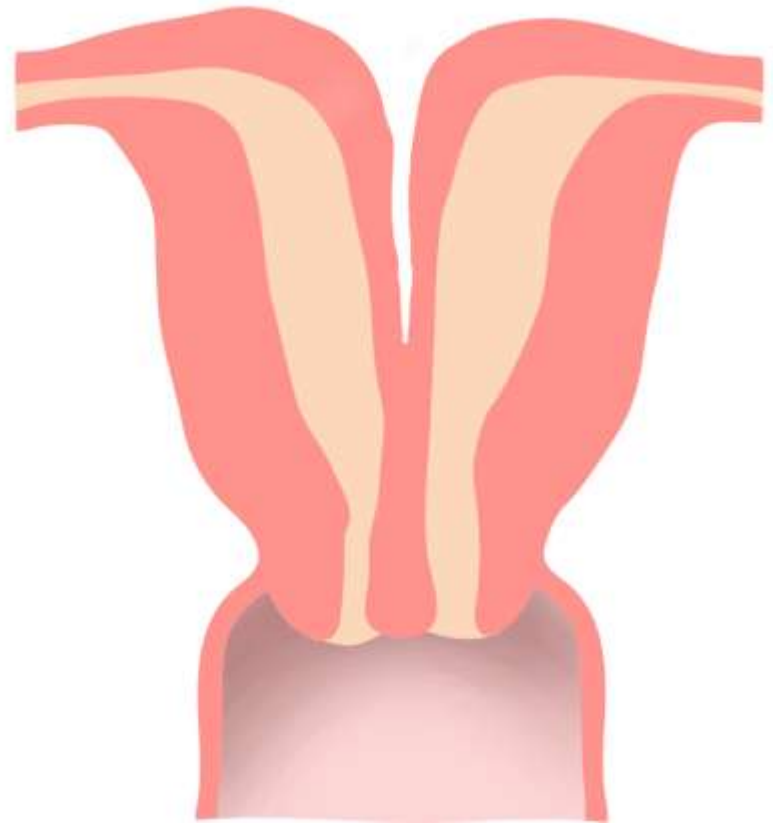
UTERUS DUPLEX ET VAGINA DUPLEX -
there are two females, two necks and
two vaginas. Both are connected to the
uterus in a limited area, usually in the
area of cervical fibro-muscular
septum.



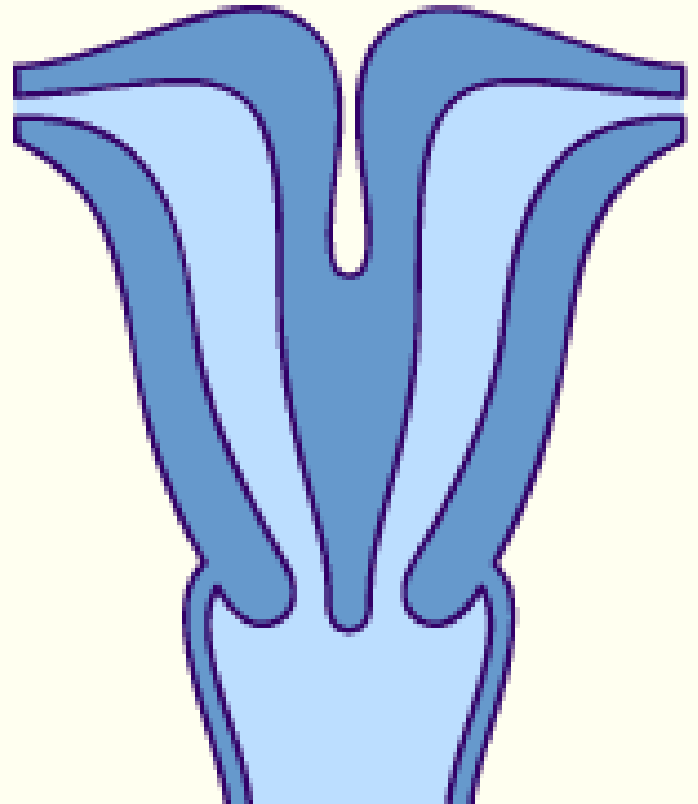
UTERUS BICORNIS - Antlered uterus arising from the merger paramesonephral moves. As a result, there is a general vagina, and other organs bifurcated.



**When the uterus may be antlered
two neck - UTERUS BICOLLIS. This
vagina is normal structure or it may
be part partition.**

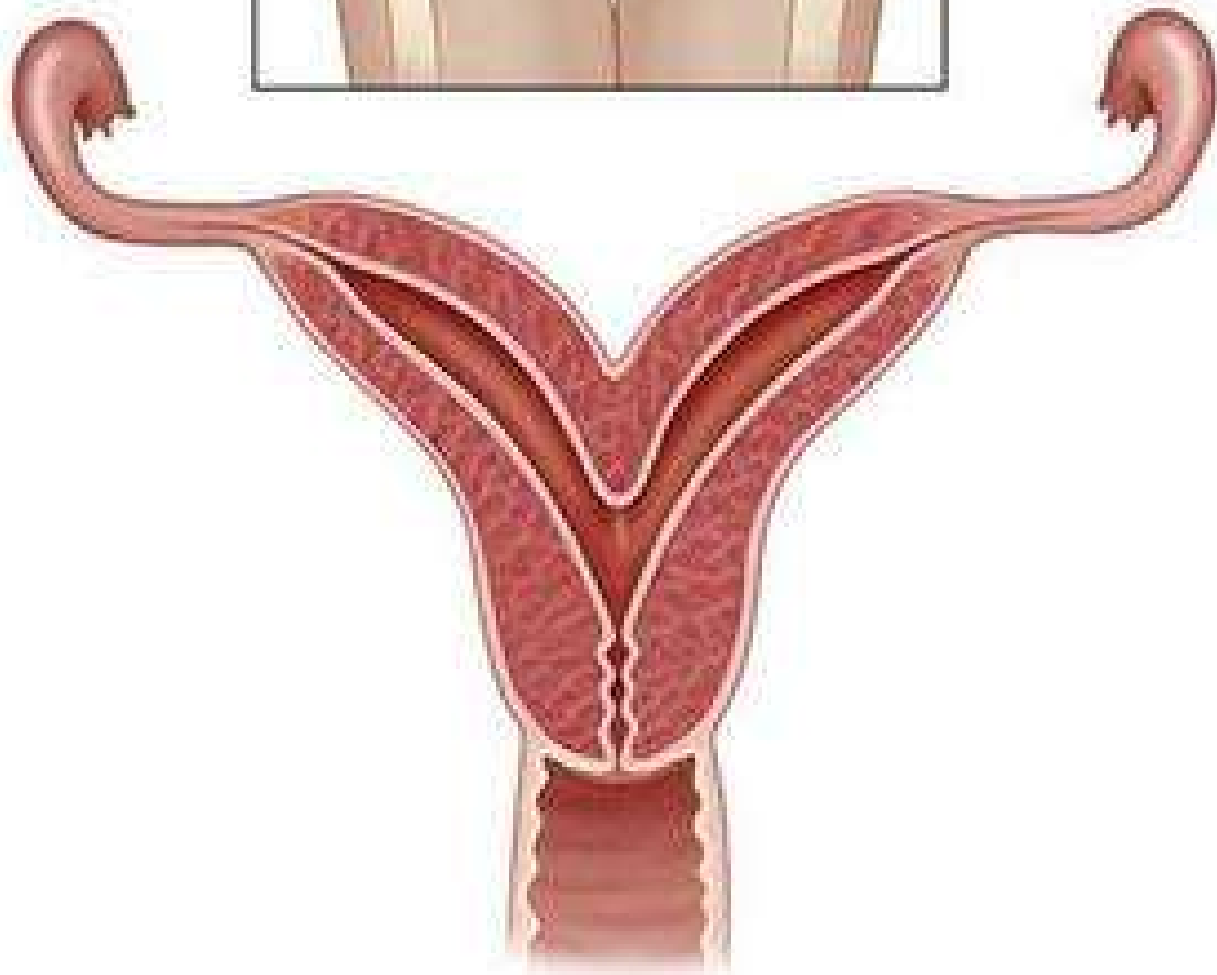
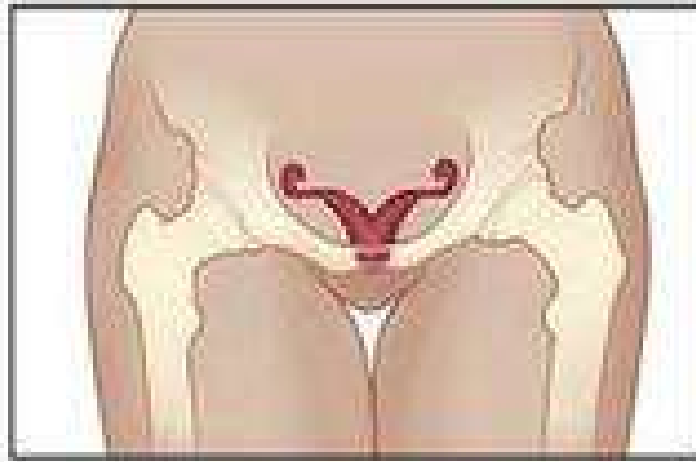


**Sometimes when antlered uterus may be a neck that is formed from a complete merger of both halves -
UTERUS BICORNIS UNCOLLIS.**



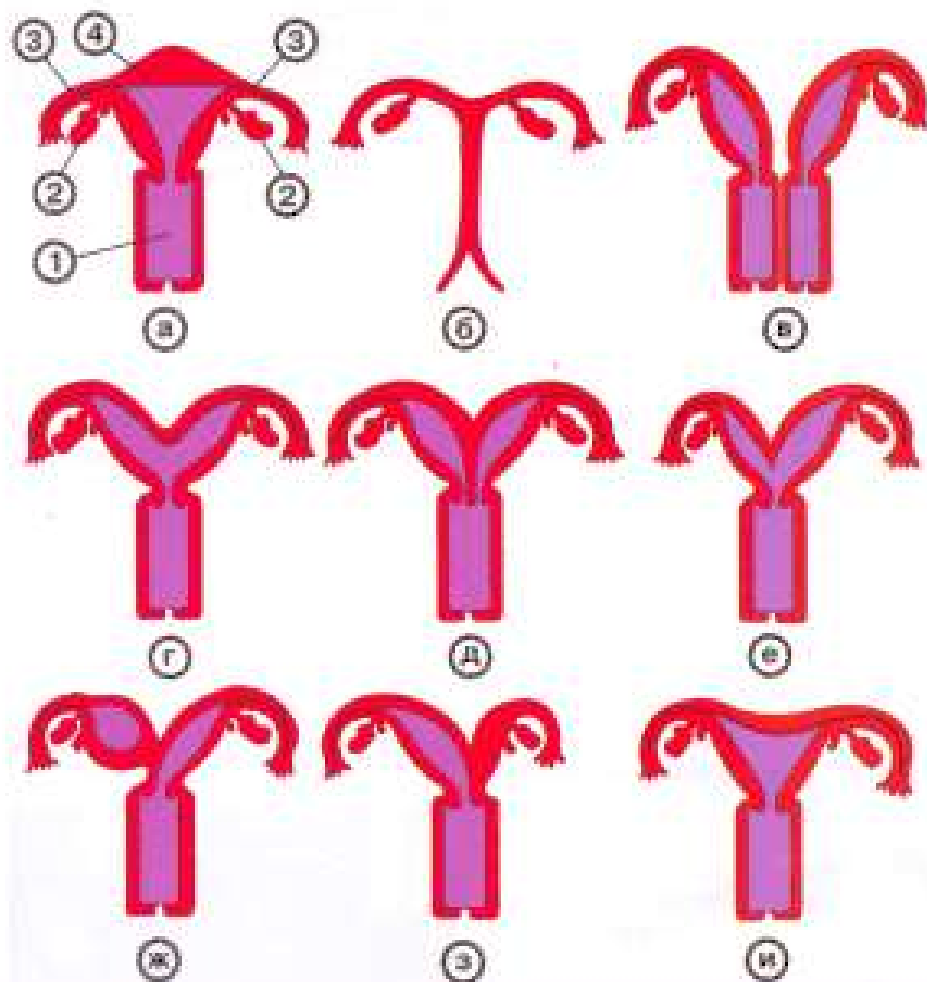
Perhaps almost complete fusion of the two horns except the bottom, which produce a deepening saddle - a saddle-shaped uterus (UTERUS ARCUATUS).

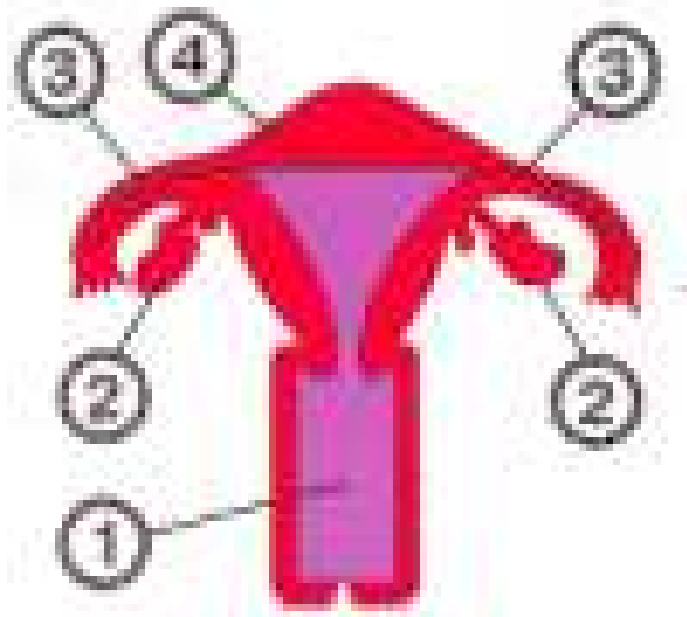
In the saddle-shaped uterus may be a partition that covers the entire cavity or partial membrane in the bottom or cervix.



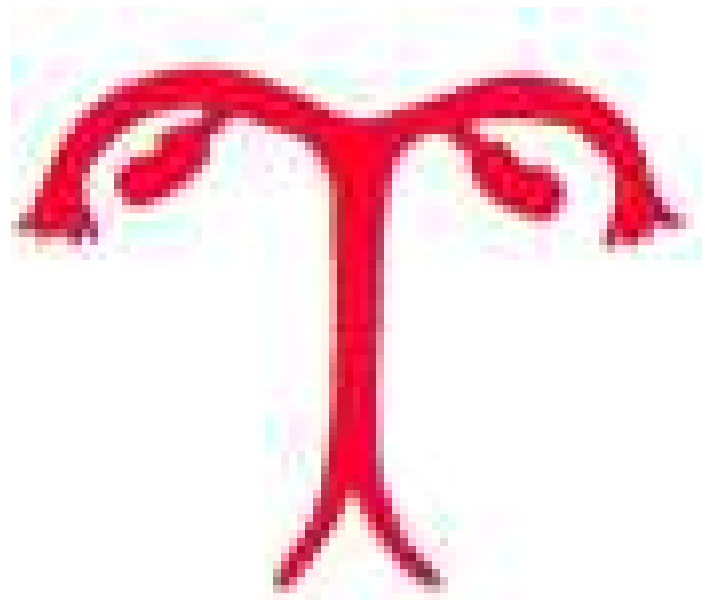
Внутренние половые органы женщины в норме и при некоторых пороках развития матки и влагалища

- а - норма (1 - влагалище, 2 - яичник, 3 - маточная труба, 4 - матка);
б - аплазия матки и влагалища (отсутствие матки и влагалища);
в — удвоение матки и влагалища;
г — двурогая матка с одной шейкой;
д - двурогая матка с двумя шейками;
е - двурогая матка с неодинаково развитыми рогами;
ж - двурогая матка с функционирующим замкнутым рогом;
з — двурогая матка с атрезированным левым рогом;
и - седловидная матка.

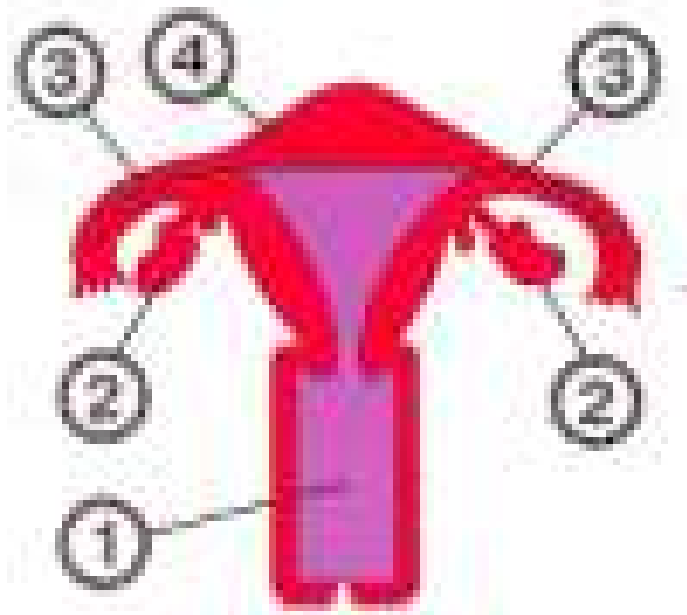




норма



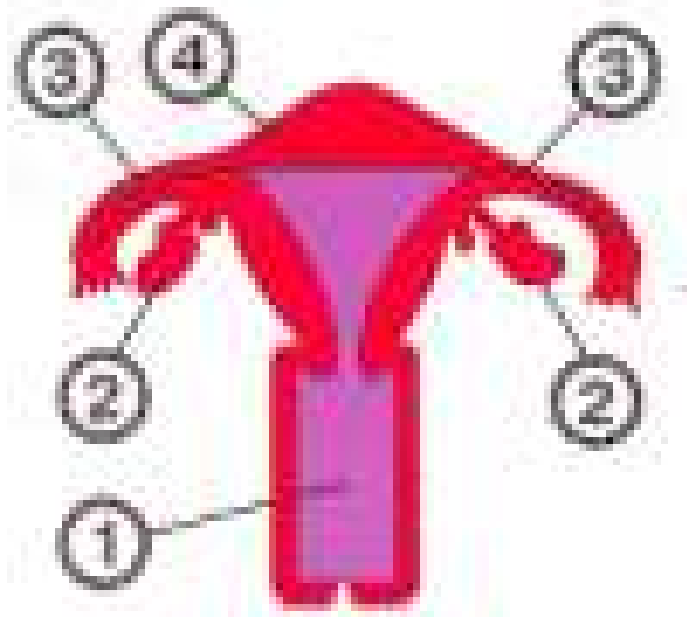
**Aplasia (lack of)
uterus and vagina**



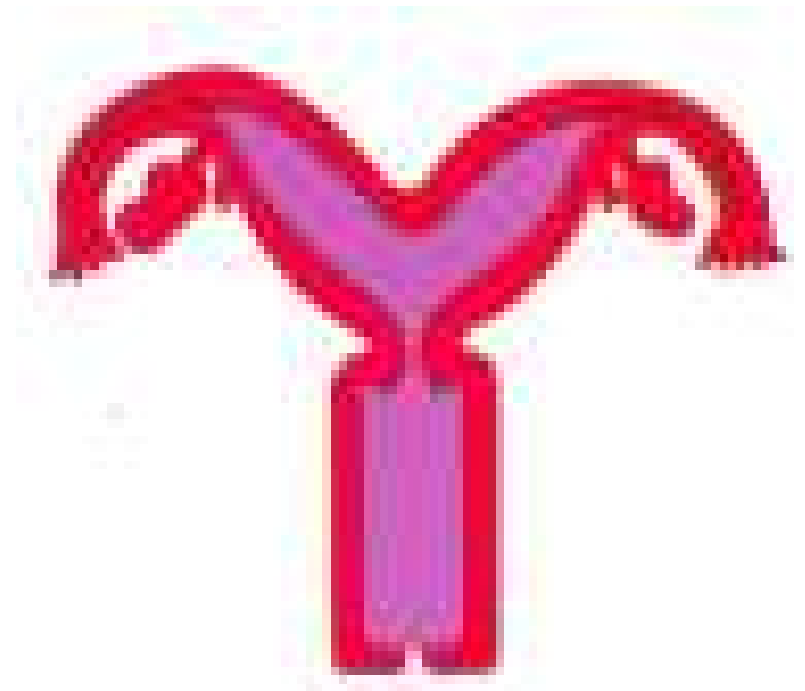
норма



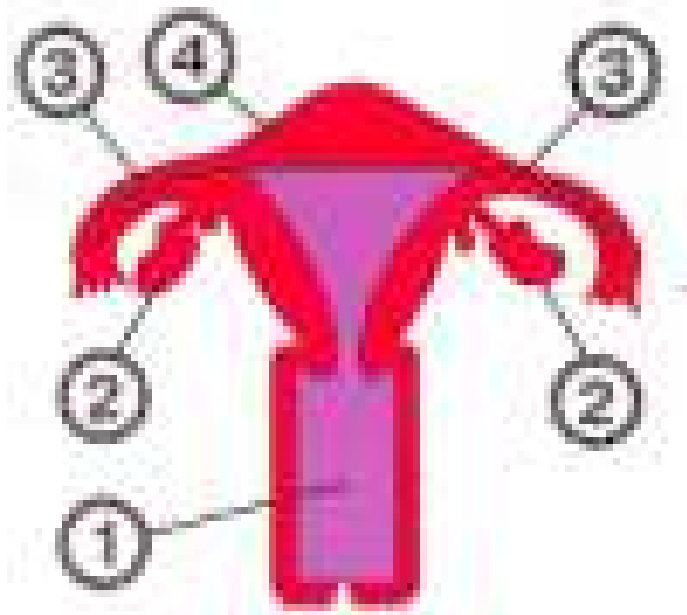
**doubling
uterus and vagina**



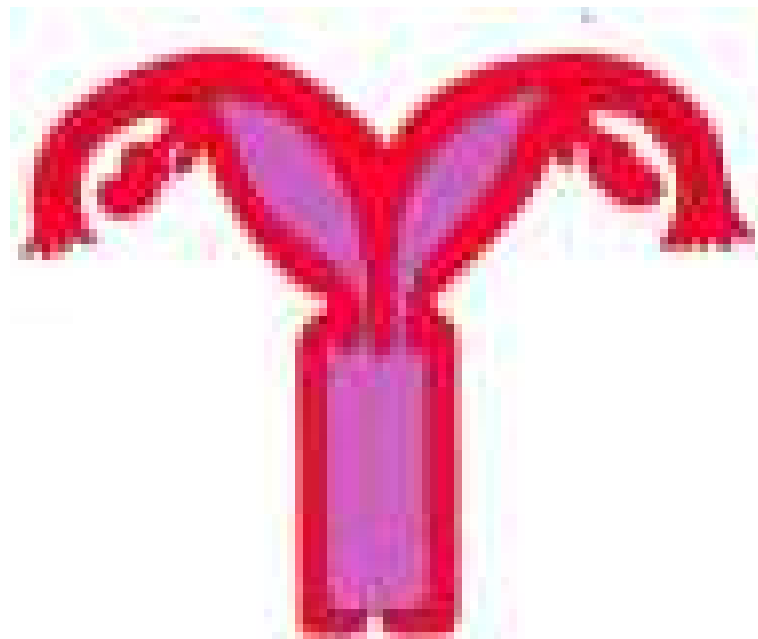
норма



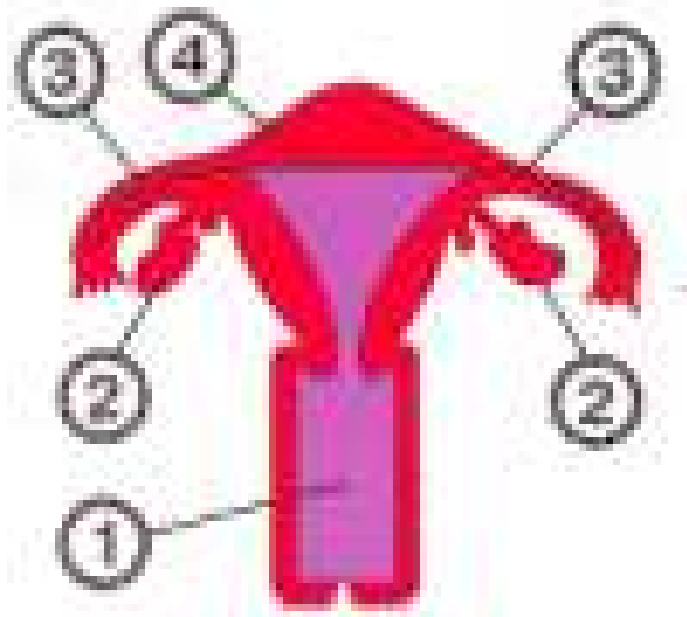
bicornum
uterus with one neck



норма



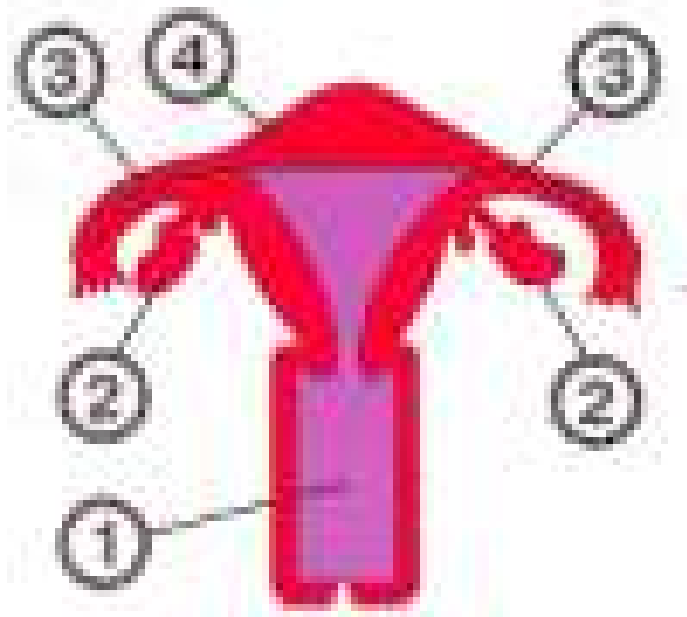
**bicornum uterus
with two tails**



норма



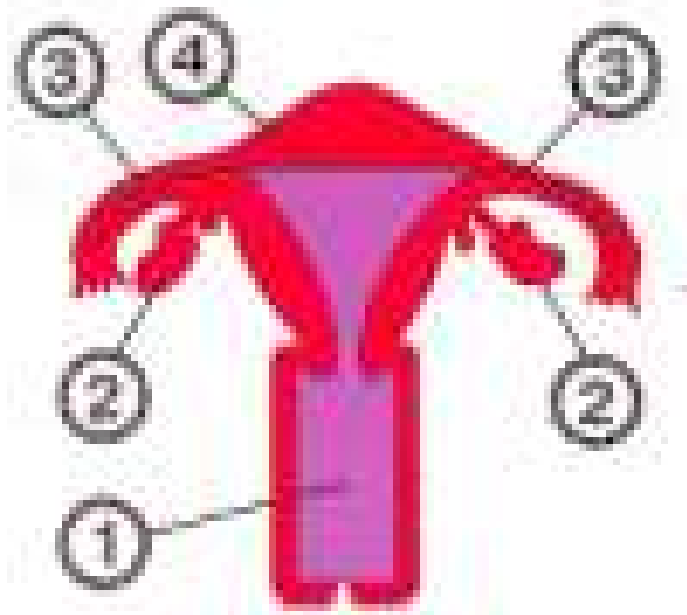
**bicornum uterus
with unequally developed tails**



норма



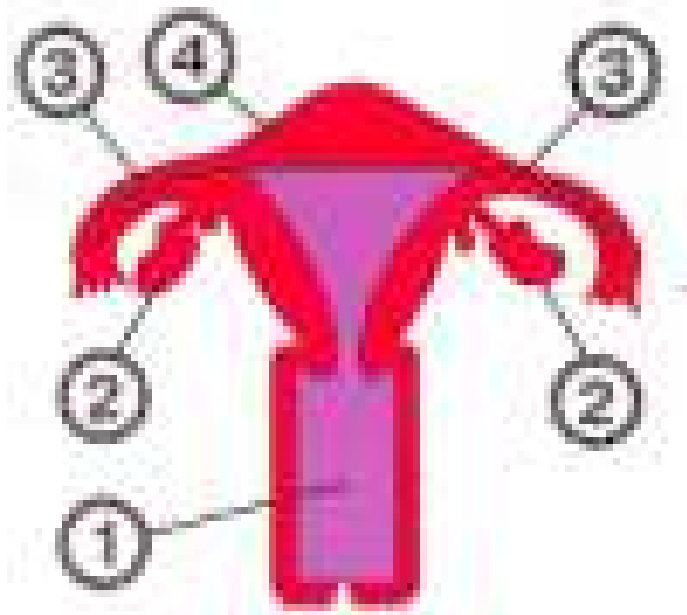
**bicornum uterus
closed with a functioning horn**



норма



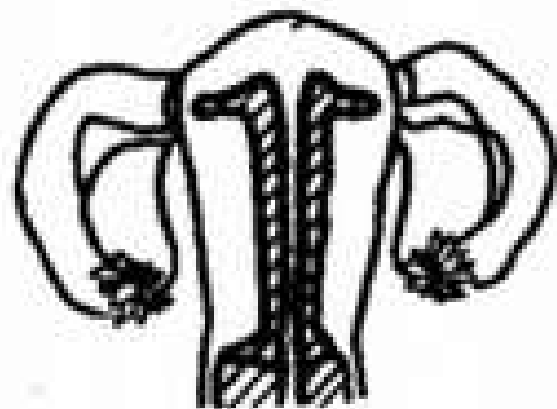
bicornum uterus
left corner of atrezovanyum



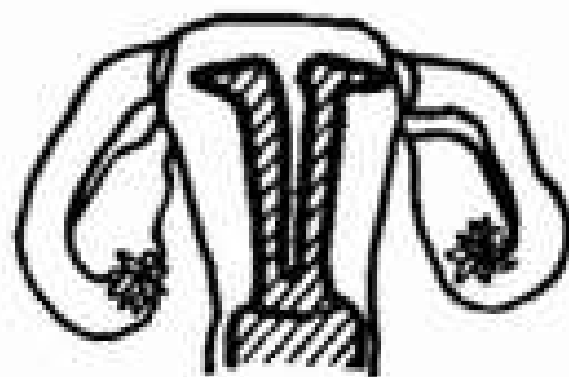
норма



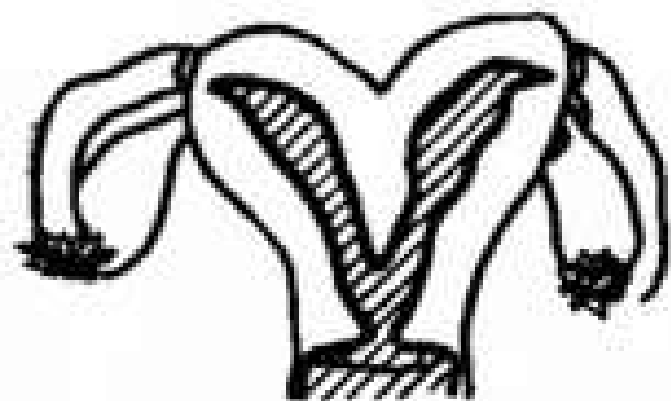
saddle-shaped uterus



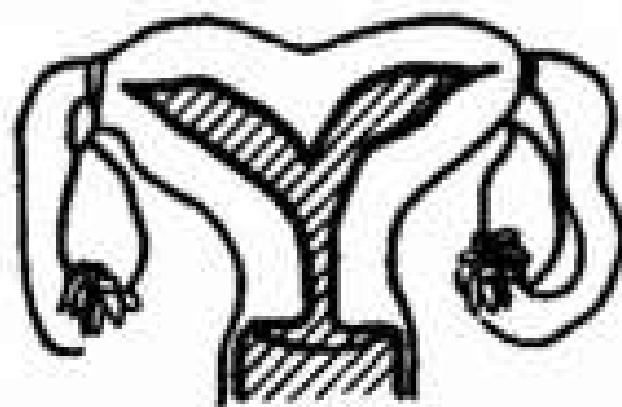
*Удвоение матки с
удвоением влагалища*



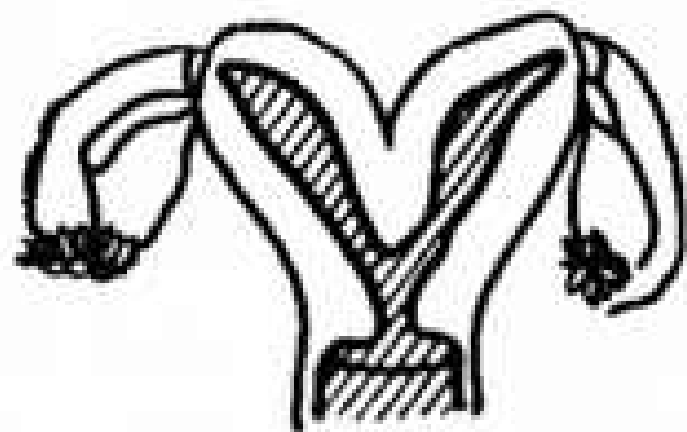
Удвоенная матка



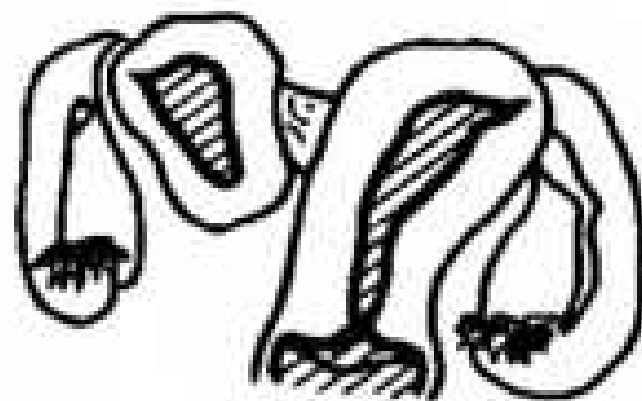
*Двурогая матка
с одной шейкой*



*Седловидная матка с
частичной перегородкой*

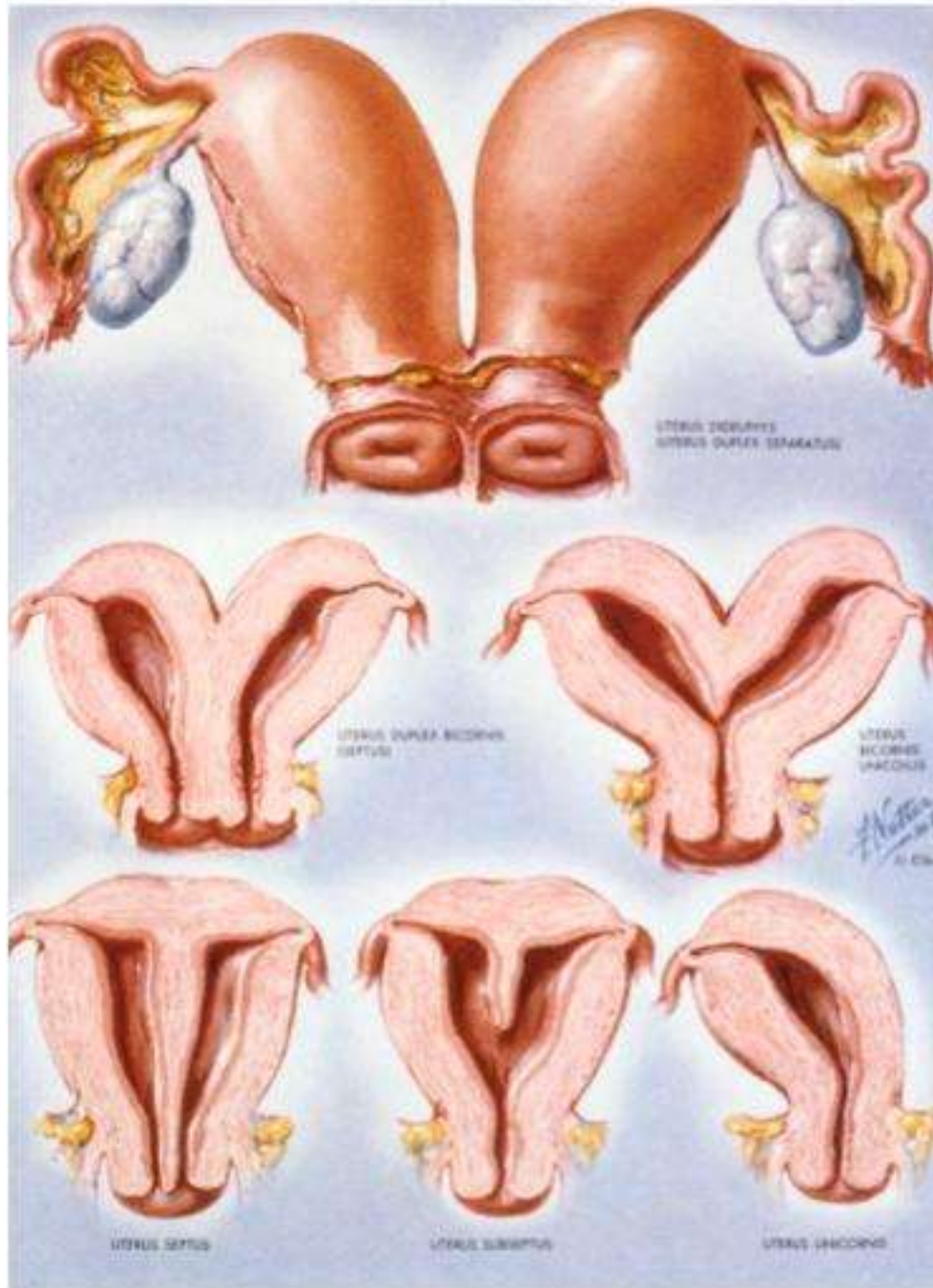


Двуорогая матка с одной шейкой (более тяжёлая форма аномалии)



Двуорогая матка с одной шейкой и рудиментарным рогом

CONGENITAL ANOMALIES





Uterine myoma (fibroid, leiomyoma)

This is a benign tumor that occurs in the muscular layer of the uterus - myometrium. It is one of the most common woman's diseases, reaching 12 - 25% of all gynecological diseases.

The highest incidence of uterine fibroids in late reproductive period and before menopause.

Миома матки

субсерозная
миома

маточная труба

субмукозная
миома

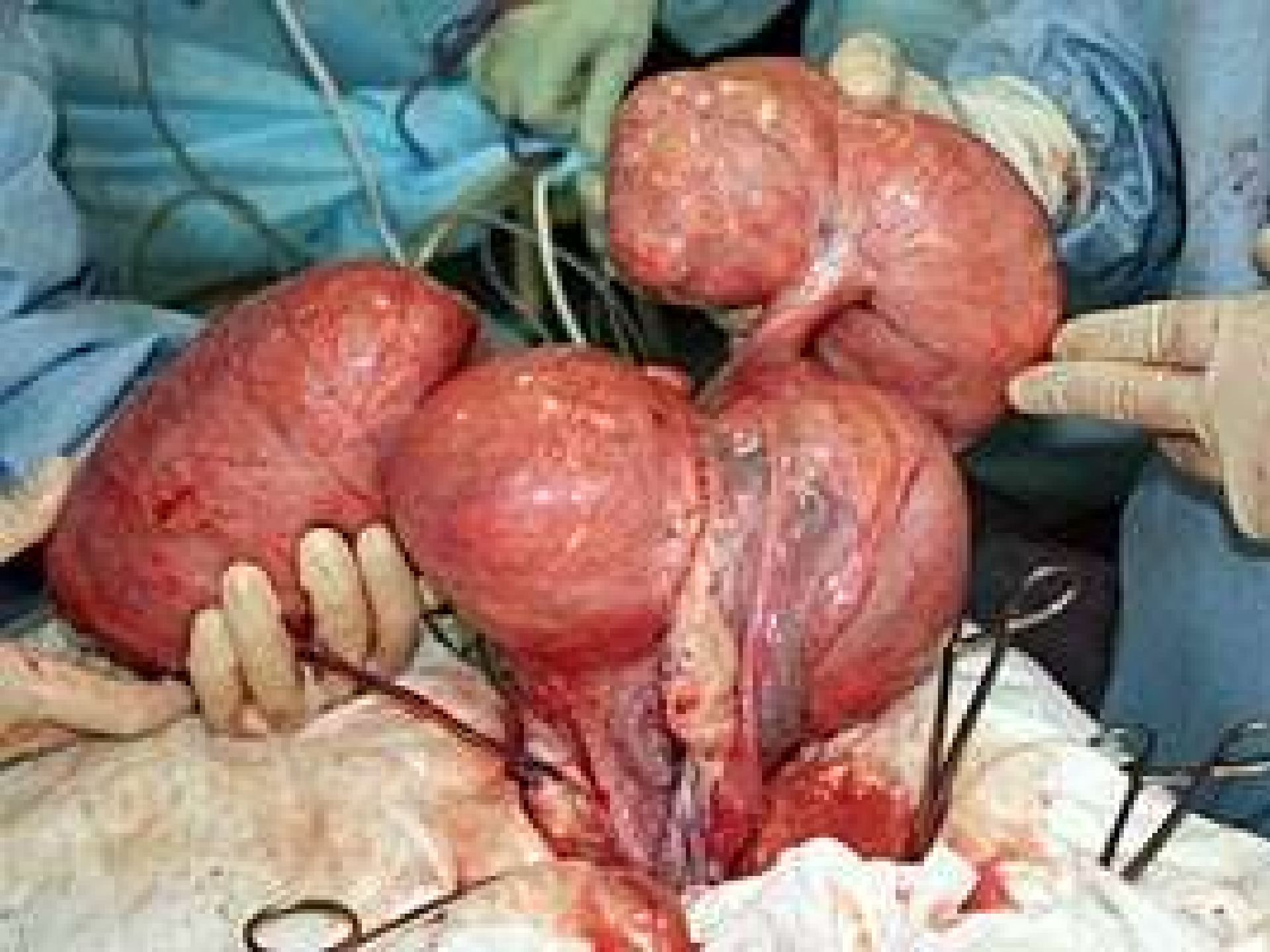


субсерозная
миома

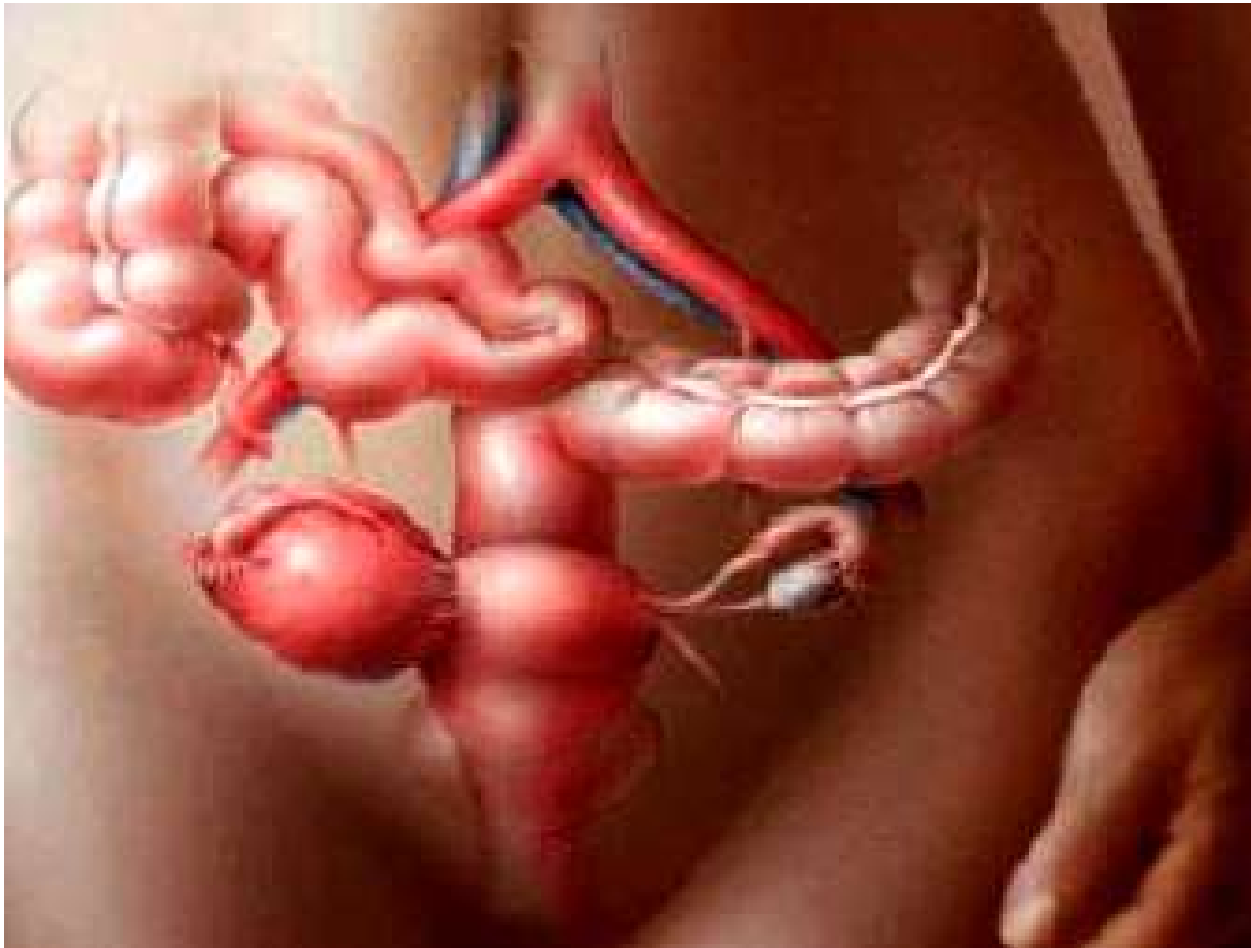
субмукозная
миома

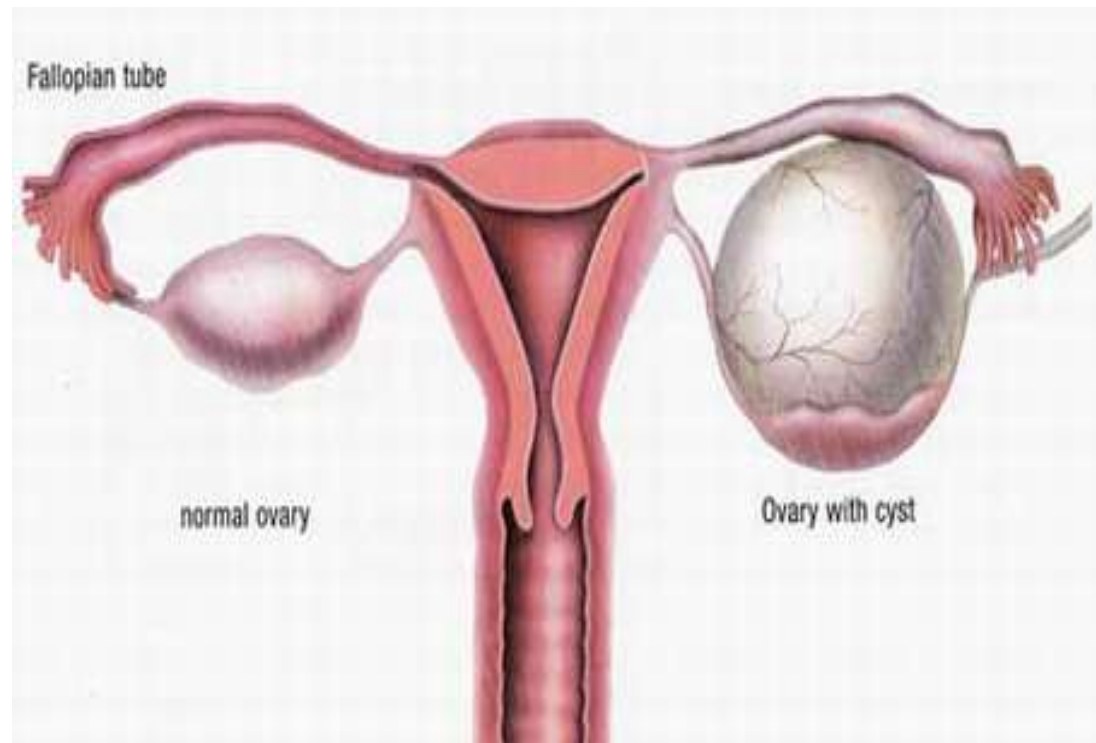
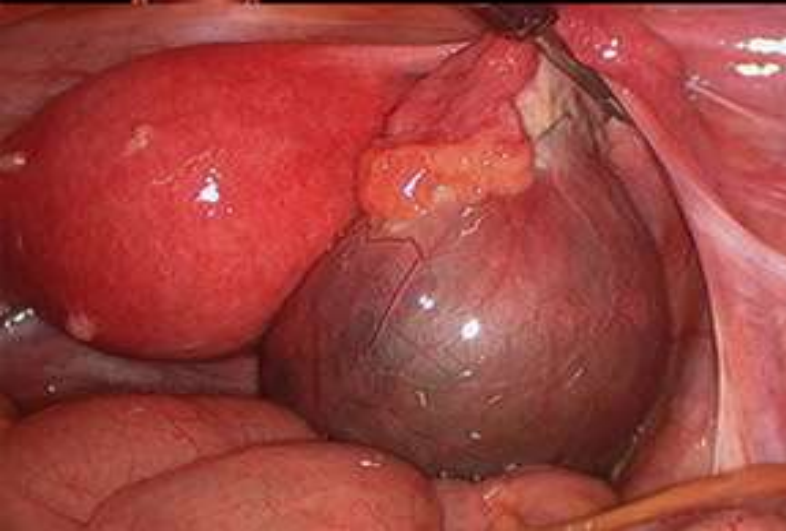
матка

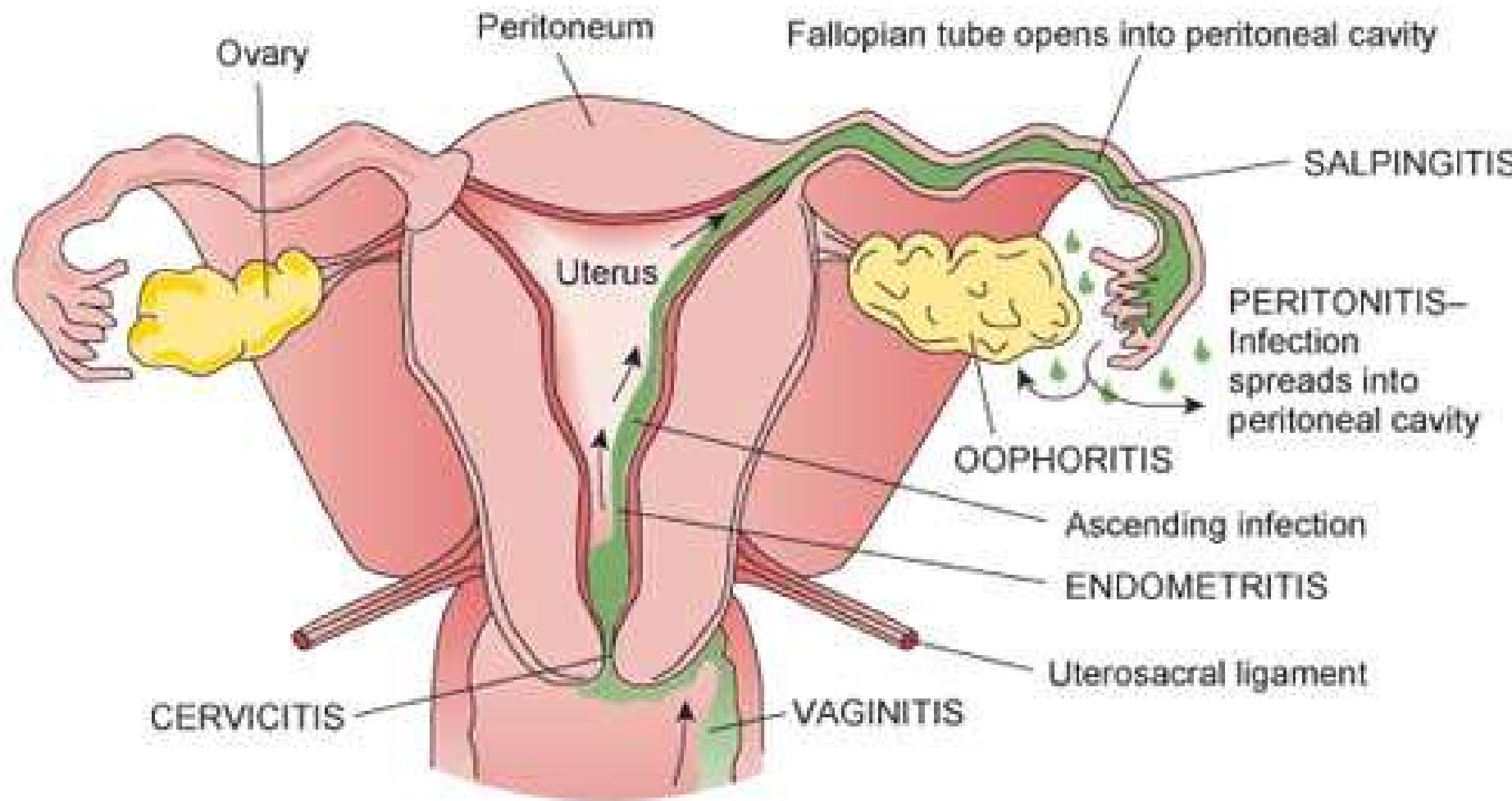
шейка матки



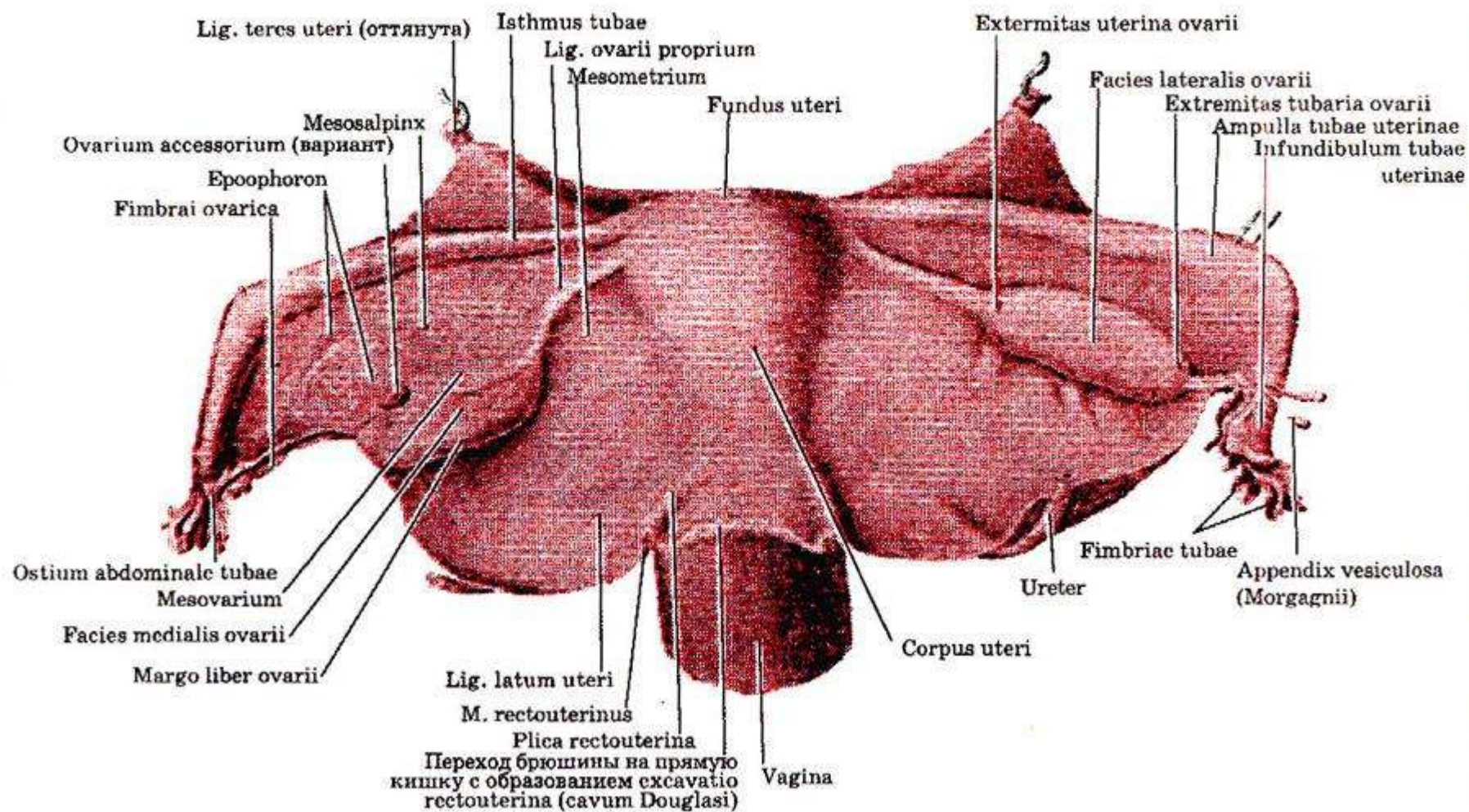
Cyst derived from the Greek word kystis - which means bubble. Ovarian cyst - a benign tumor of the ovary, which refers to the process of tumor, which is a cavity that is filled with liquid contents.



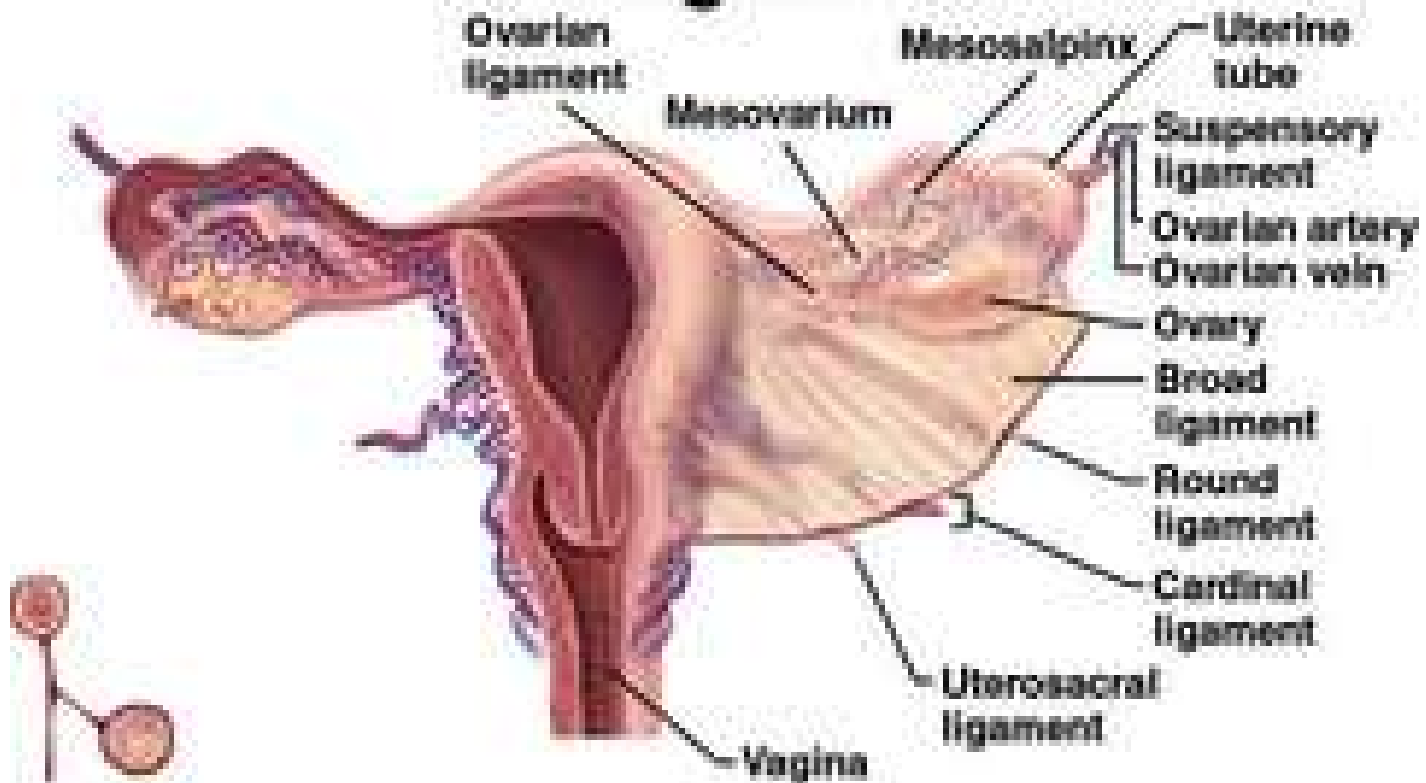


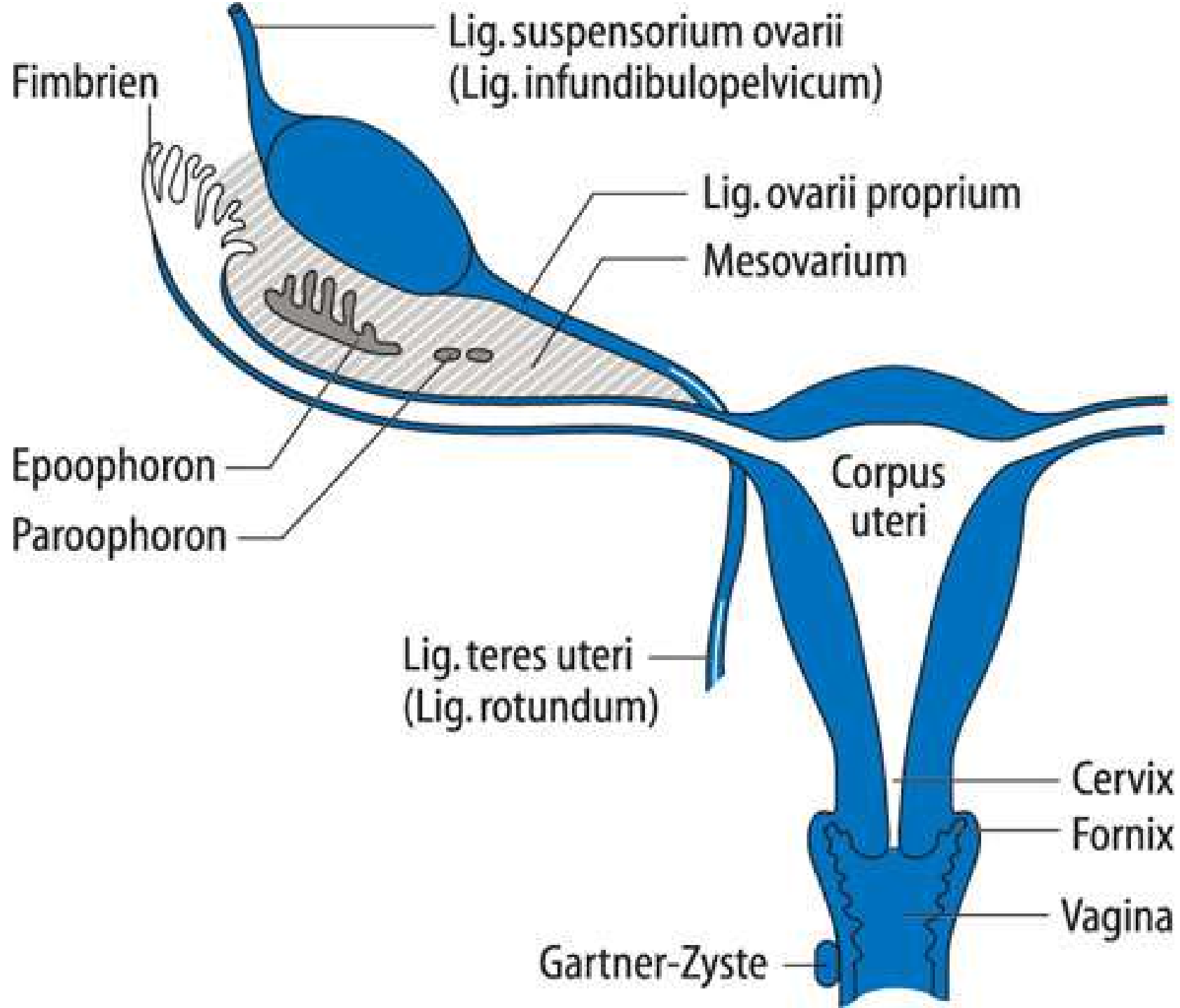


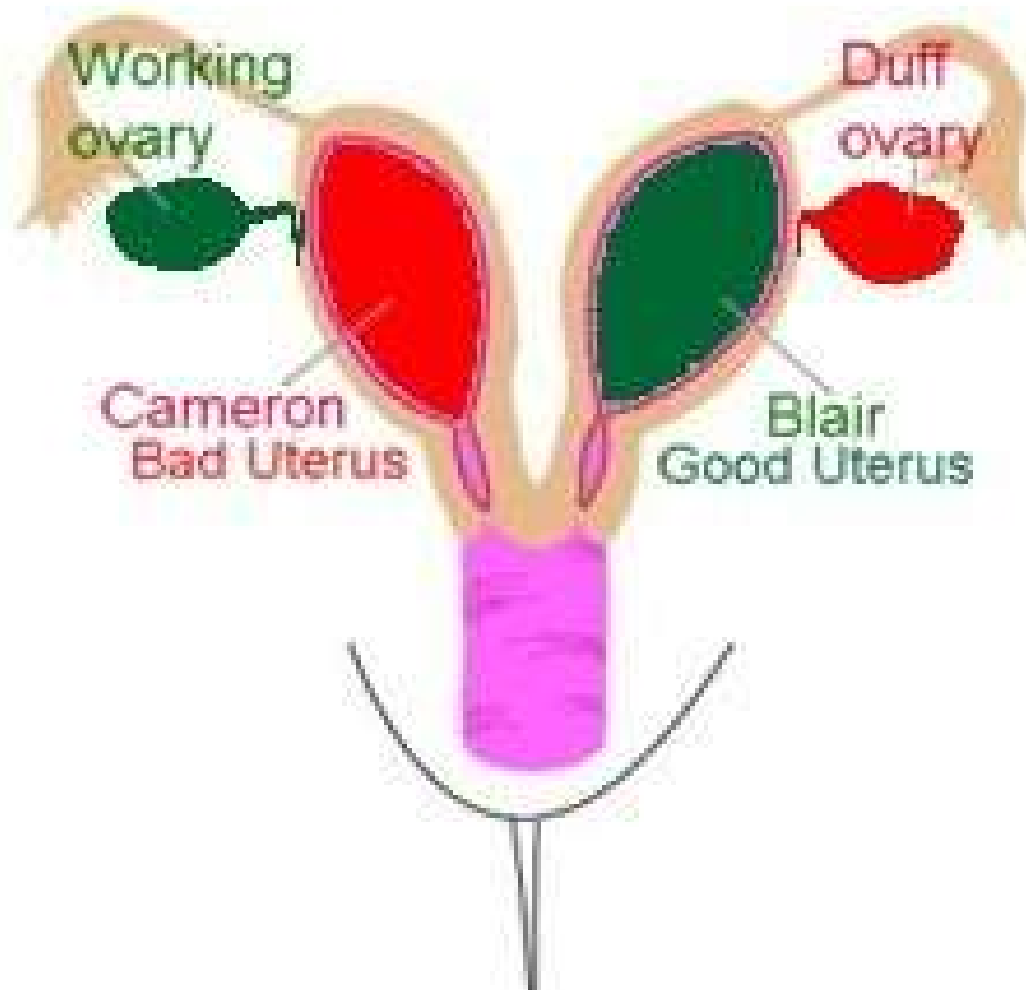
661. Матка, *uterus*, яйцеводы, *tuba uterina*, и яичники, *ovaria*, со связками; сзади



Female Reproductive Tract and Ligaments

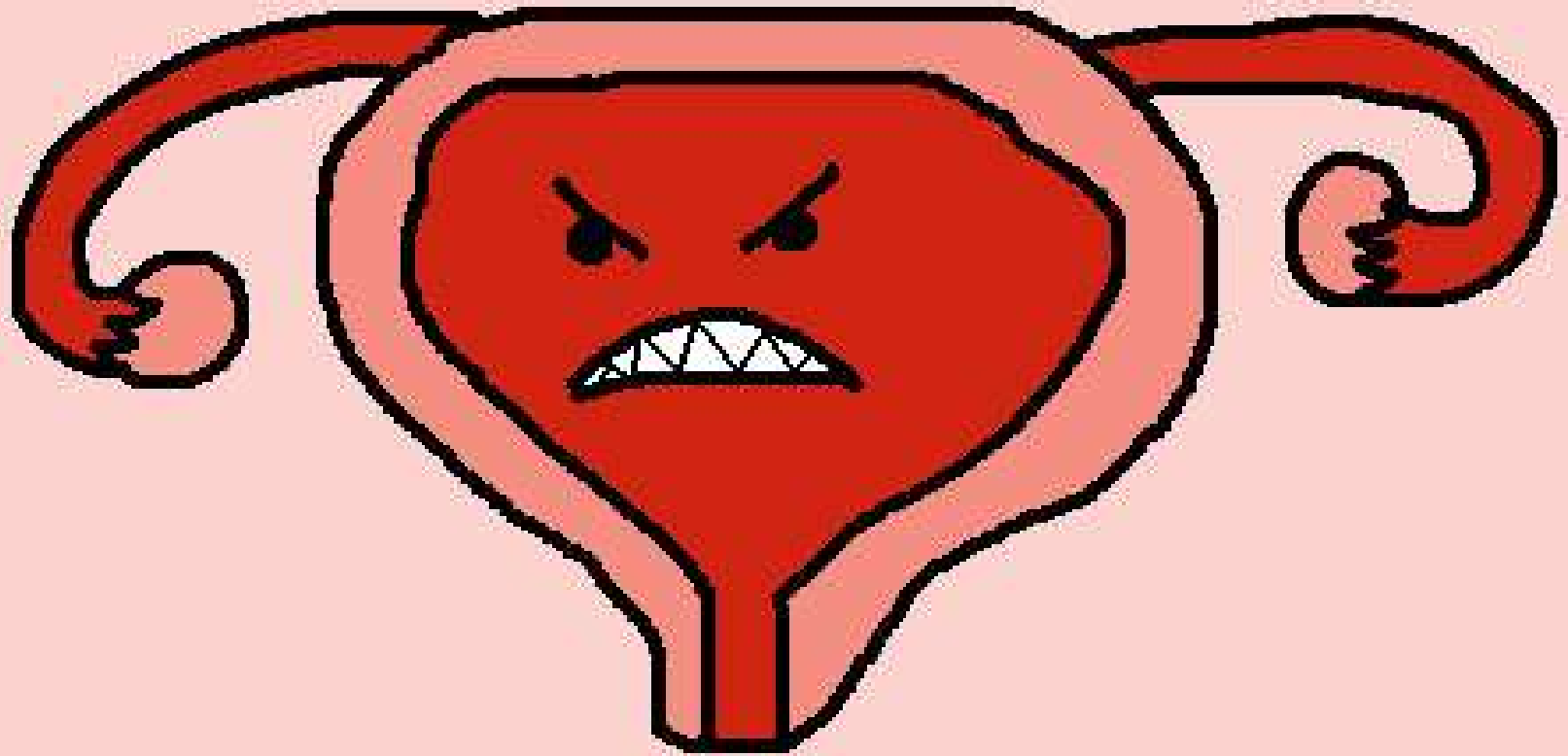




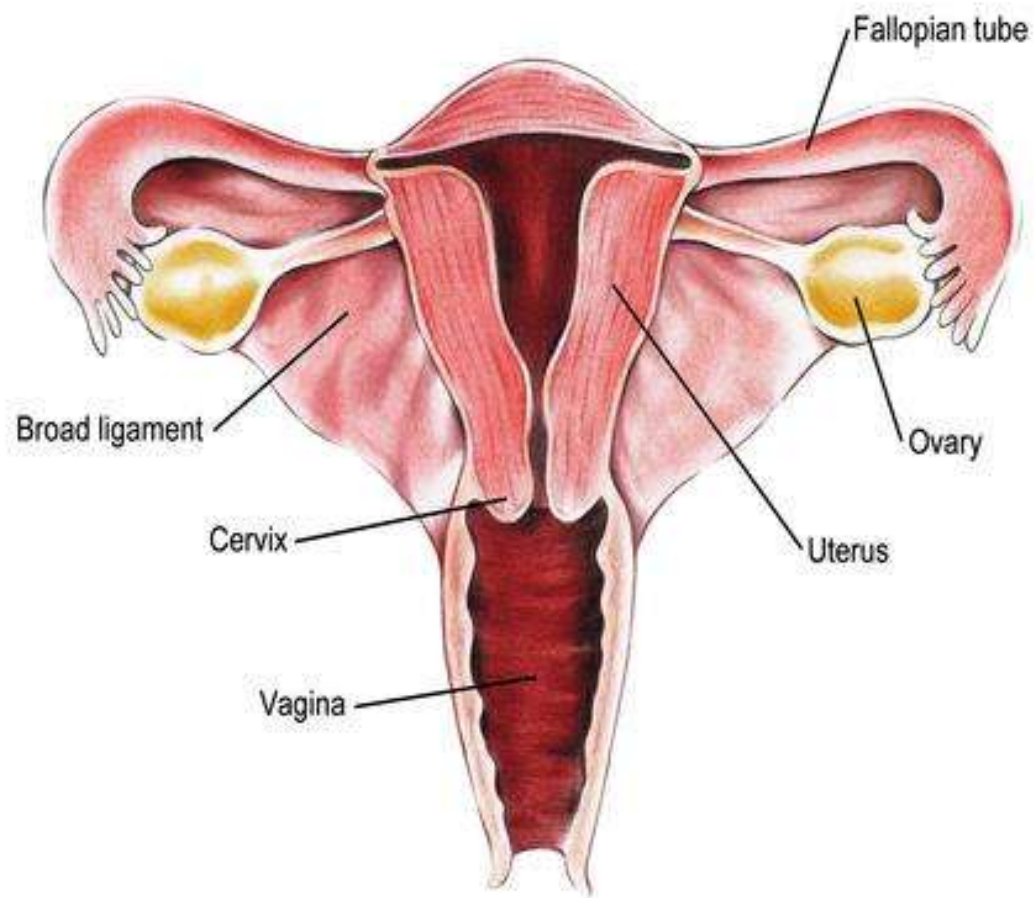




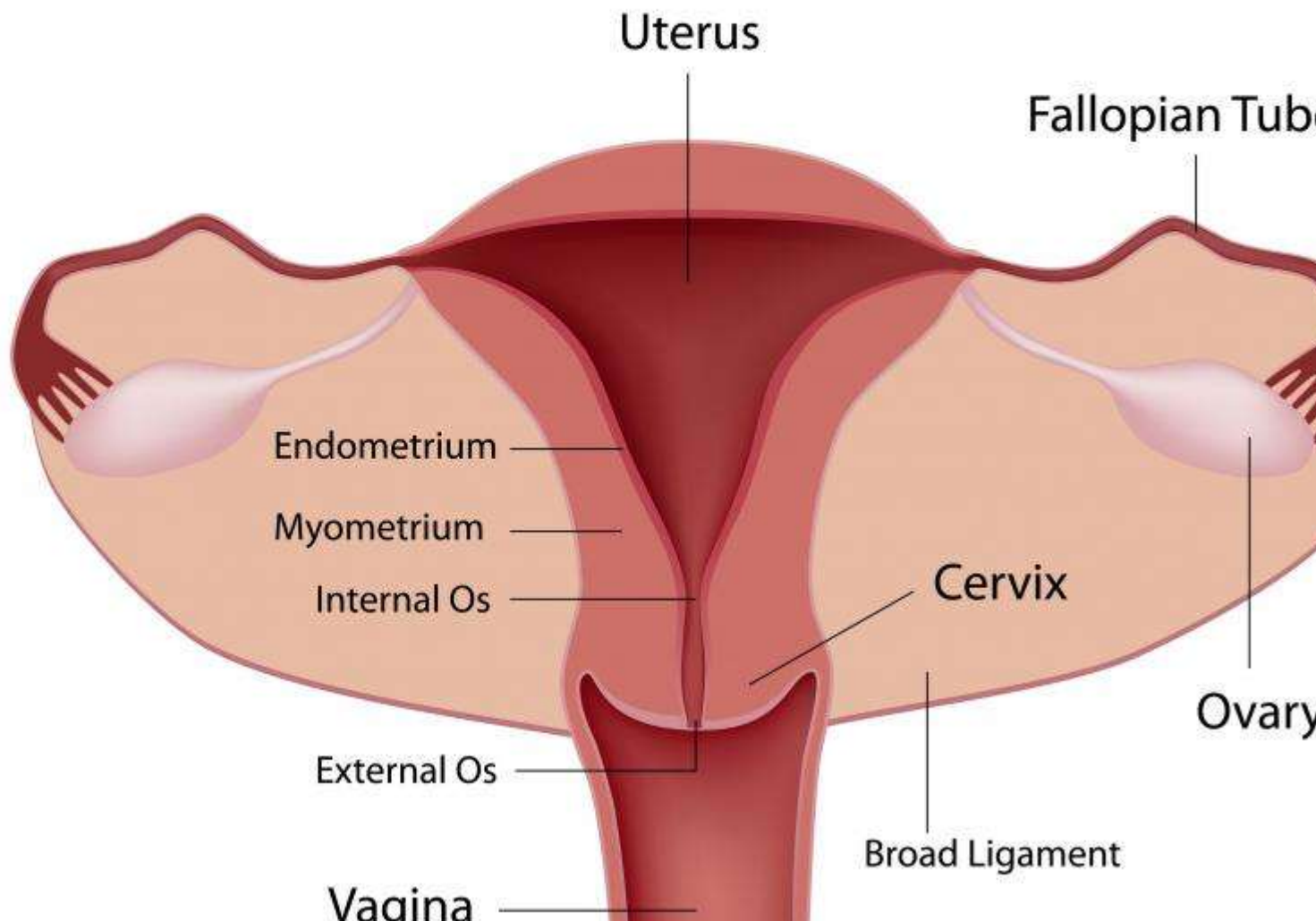


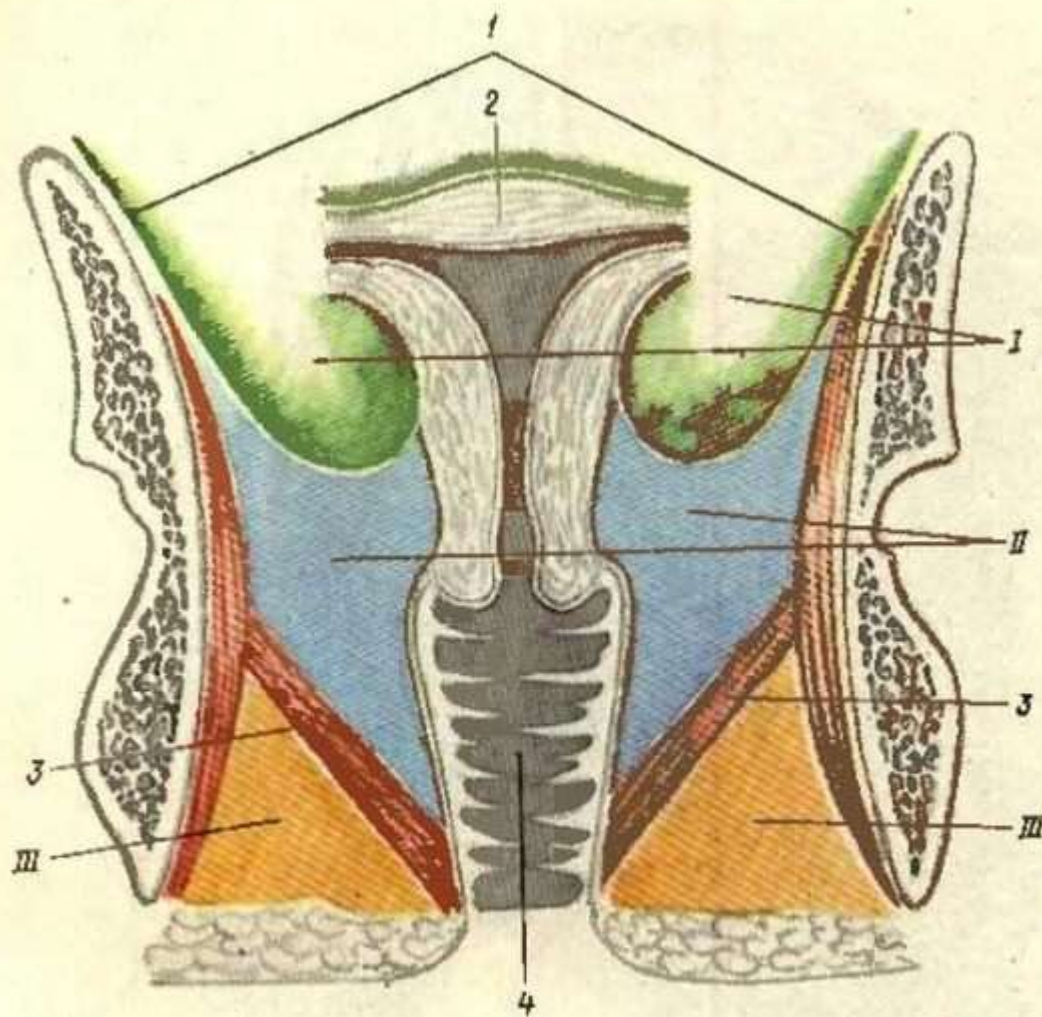


beware the wrath of
the female anatomy

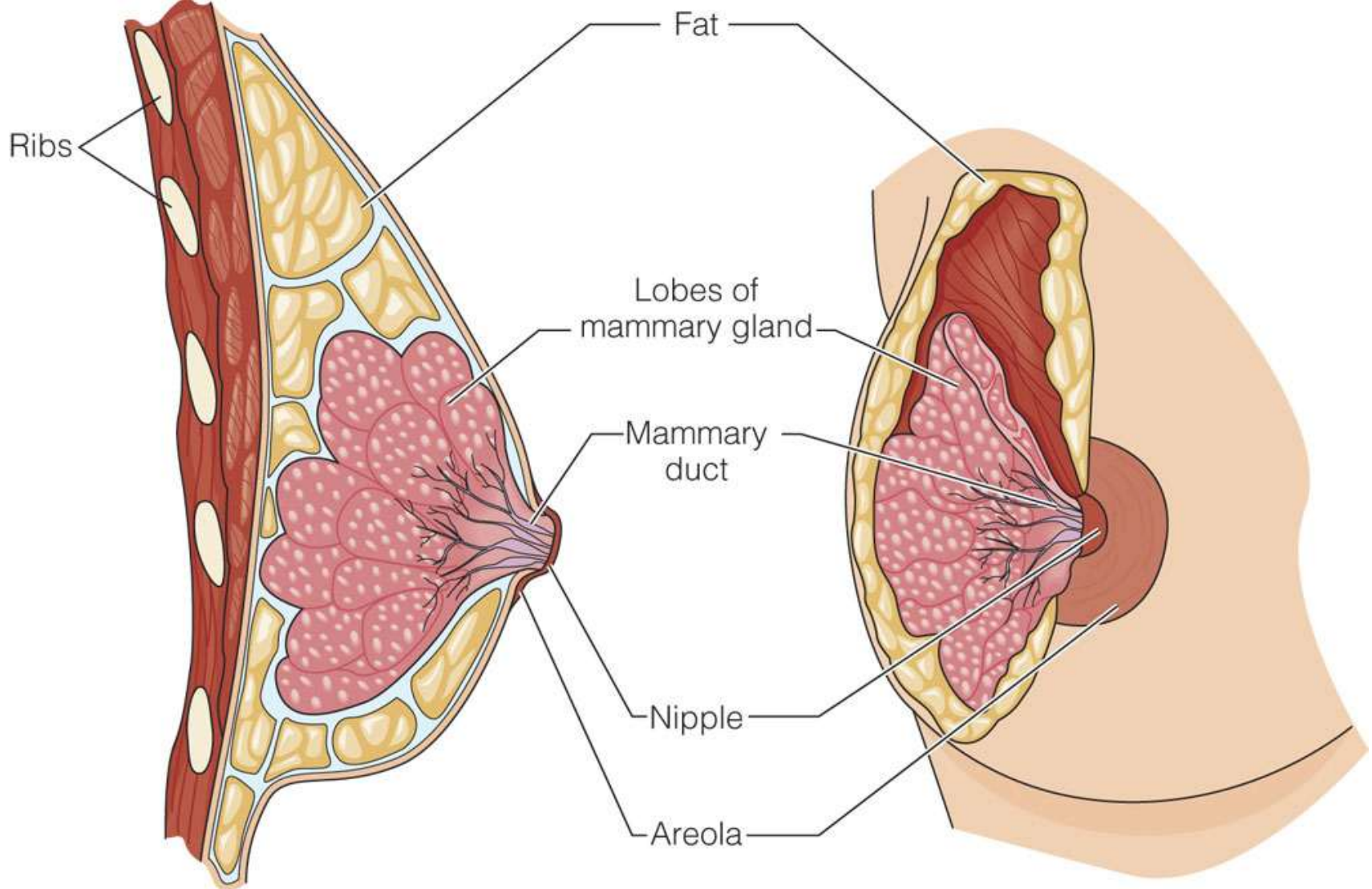


Female Reproductive System





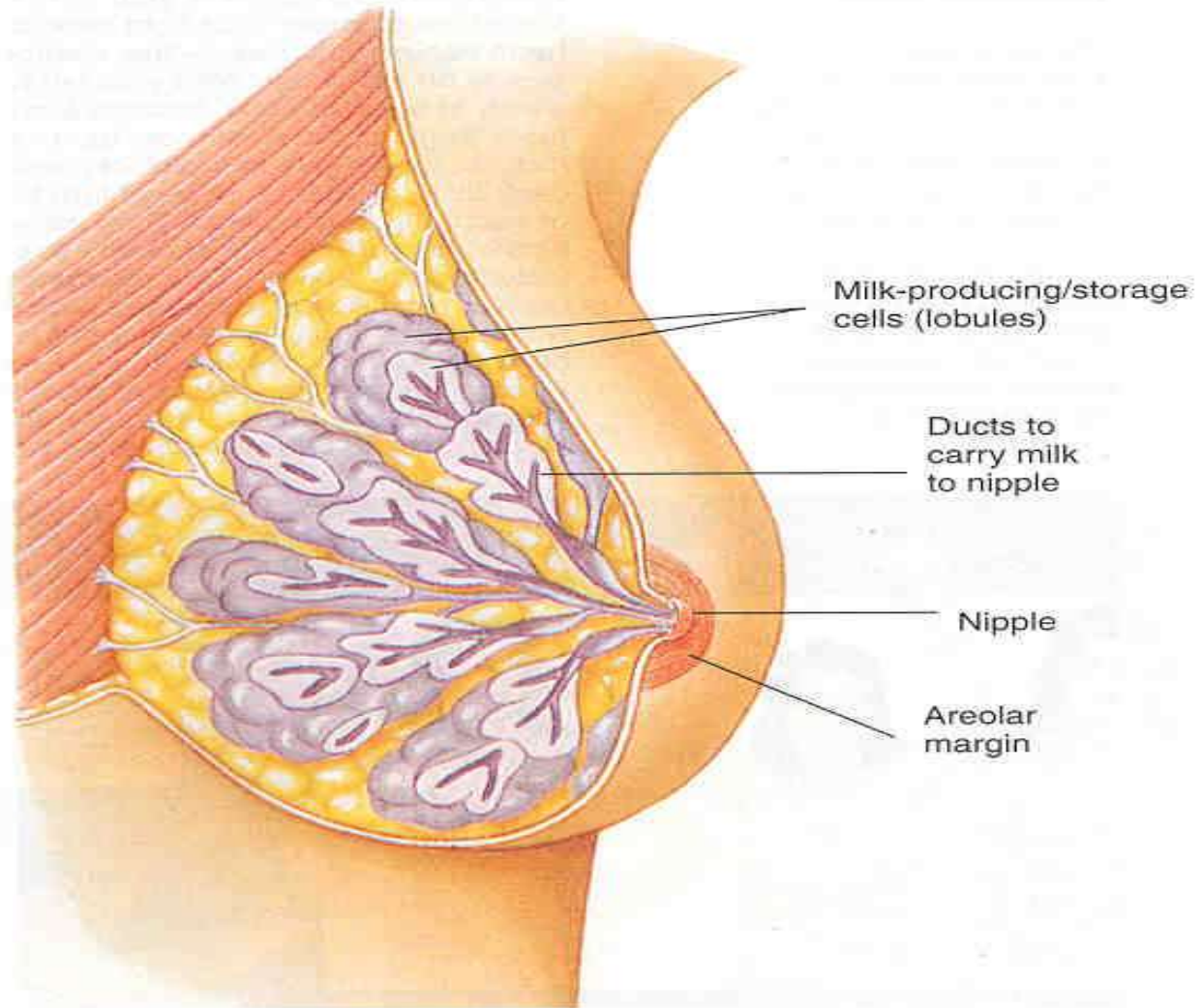
Этажи полости таза (схема фронтального разреза).
 I — cavum pelvis peritoneale; II — cavum pelvis subperitoneale; III — cavum pelvis subcutaneum. I — брюшина;
 2 — матка ; 3 — m. levator ani; 4 — влагалище.



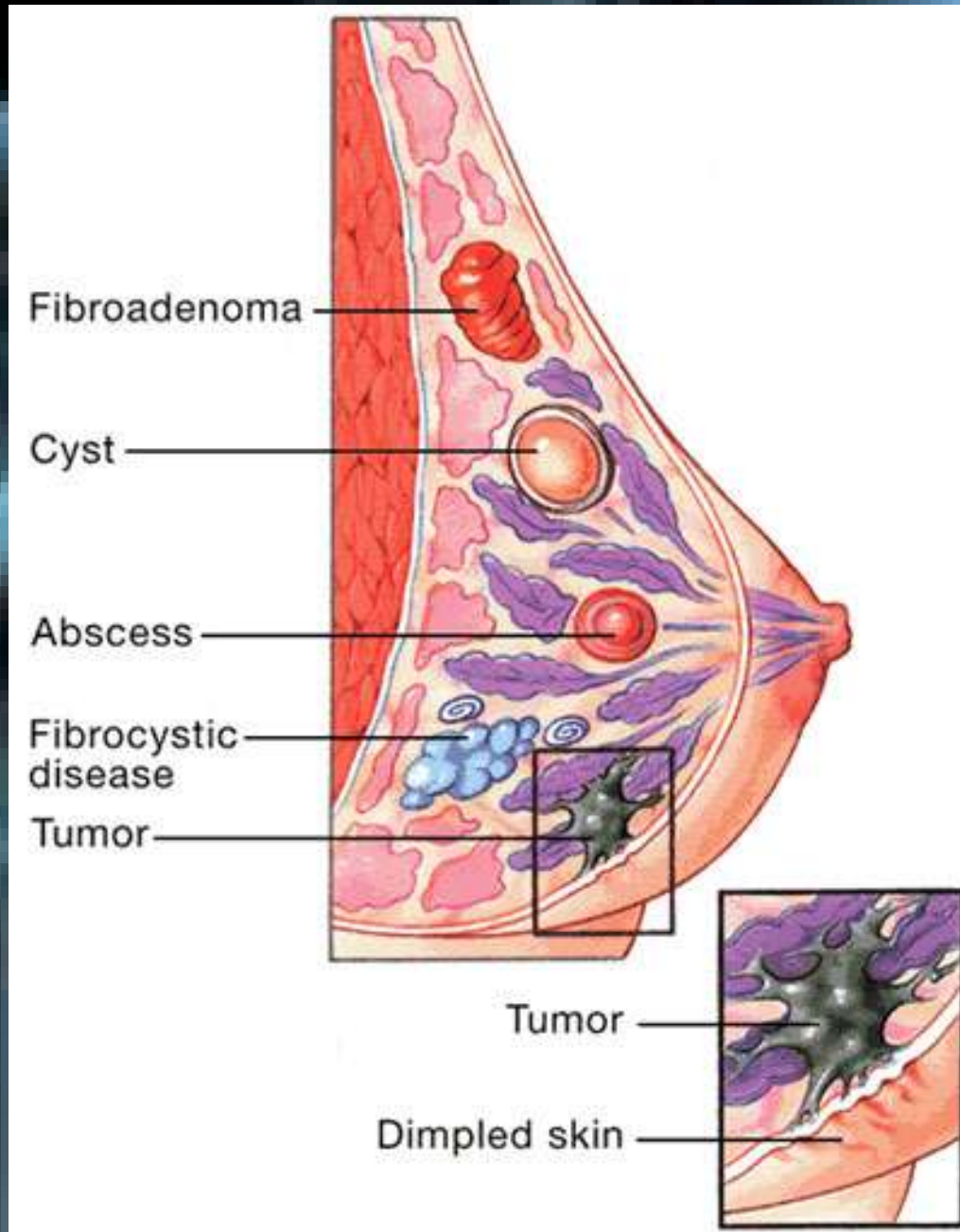
© 2007 Thomson Higher Education

The female breast.

Breast(MAMMA)



- American Cancer Society recommends SBE
- Self breast at the end of your period every month for adult women



Performing A Breast Self Exam

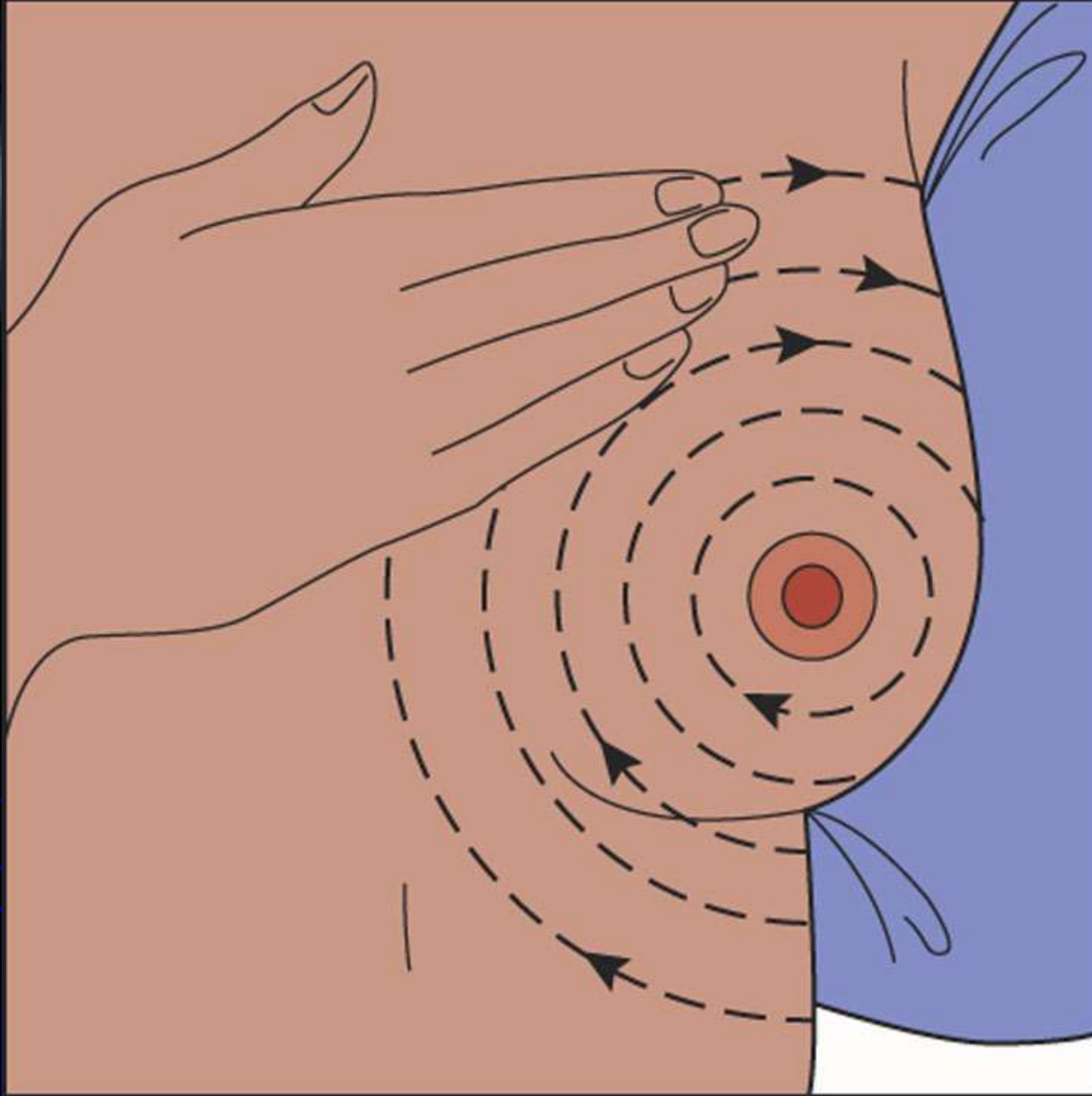
- First, *look* for changes...Then, *feel* for changes

- ❖ Step 1: Lie down and raise right arm above head

- ❖ Step 2: Examine area from underarm to lower bra line; across to breast bone; up to collar bone; back to armpit

- ❖ Step 3: Use pads of three middle fingers of the left hand to check the right breast, in dime-sized circles

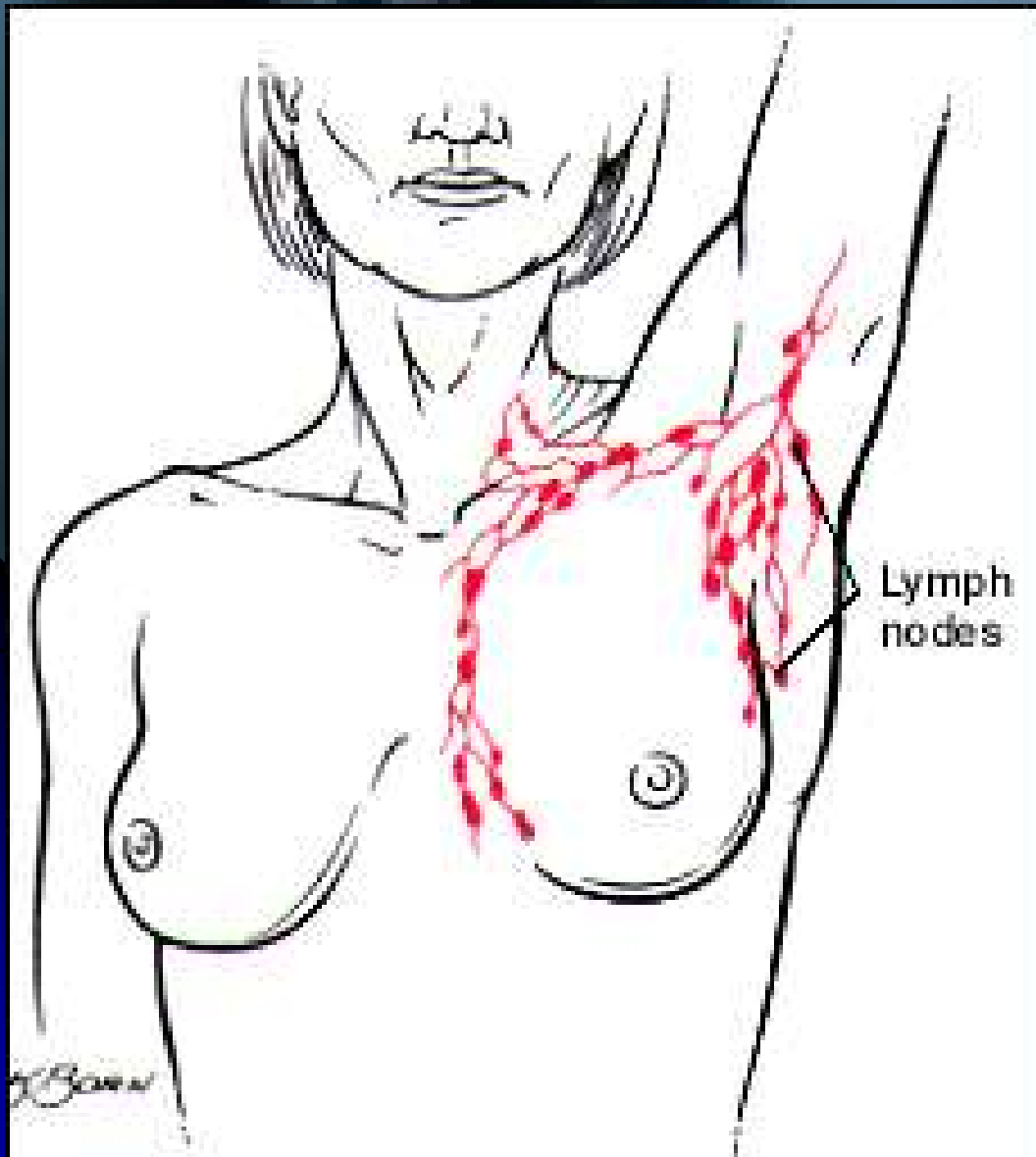




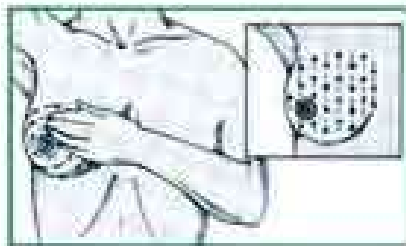
© 2007 Thomson Higher Education

Breast exam (in Feature box)

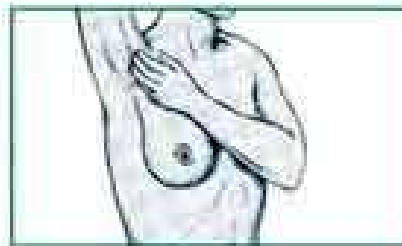
Breast Cancer



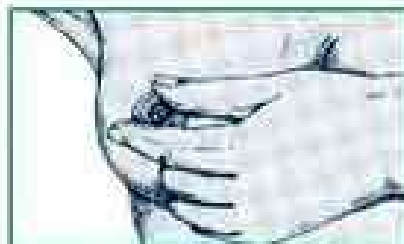
B REAST SELF-EXAMINATION



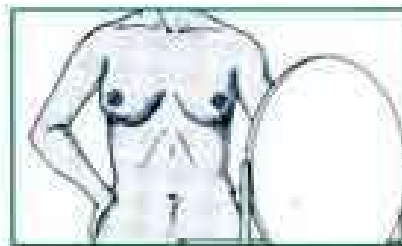
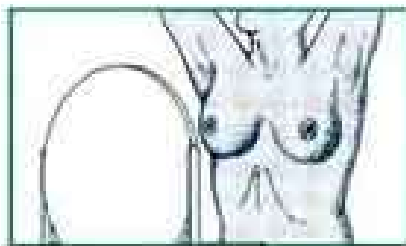
Feel your breasts for lumps.
(Use circles or rows.)



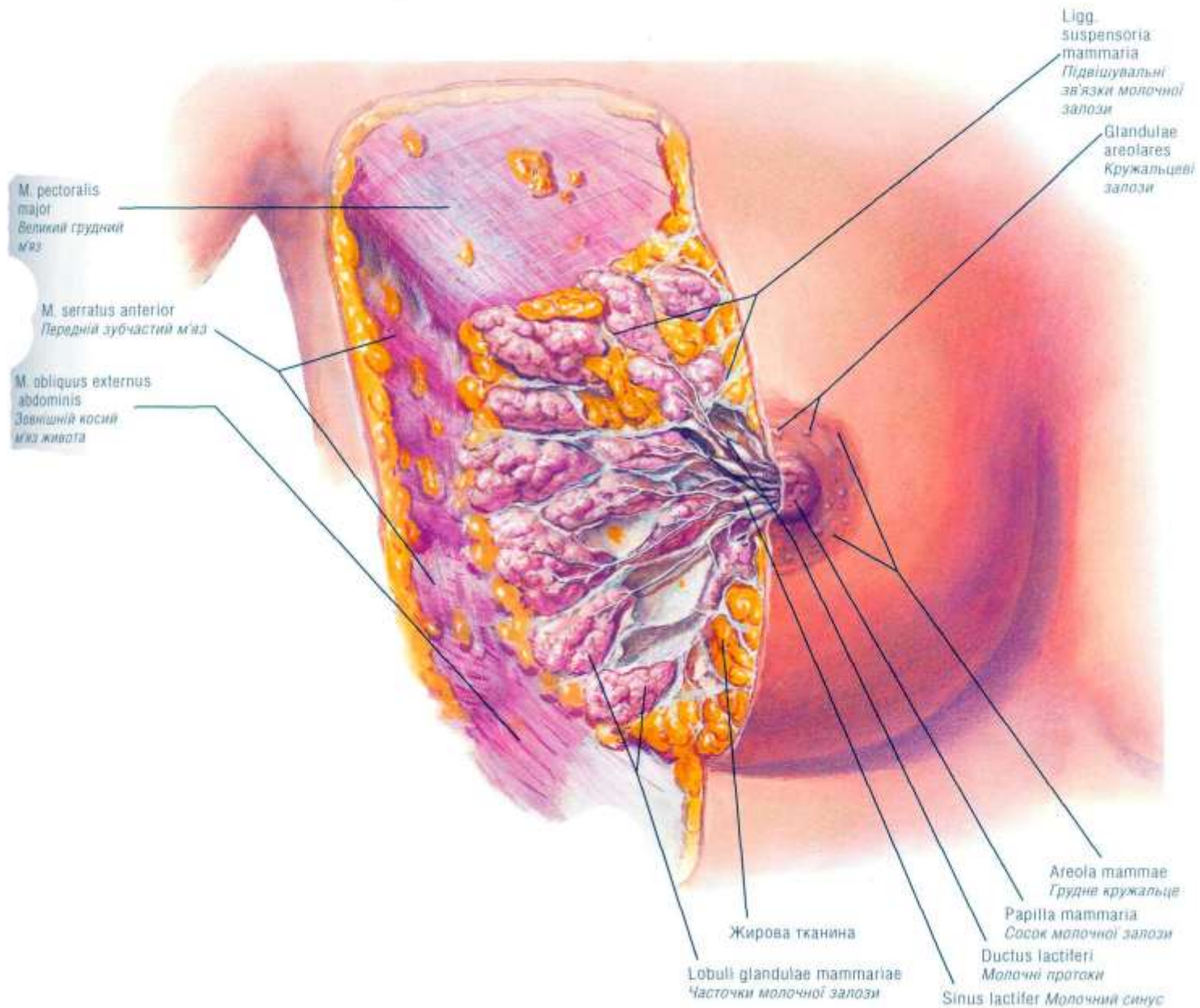
Also check under your arms, up to
your collar bone, and below your
breasts.

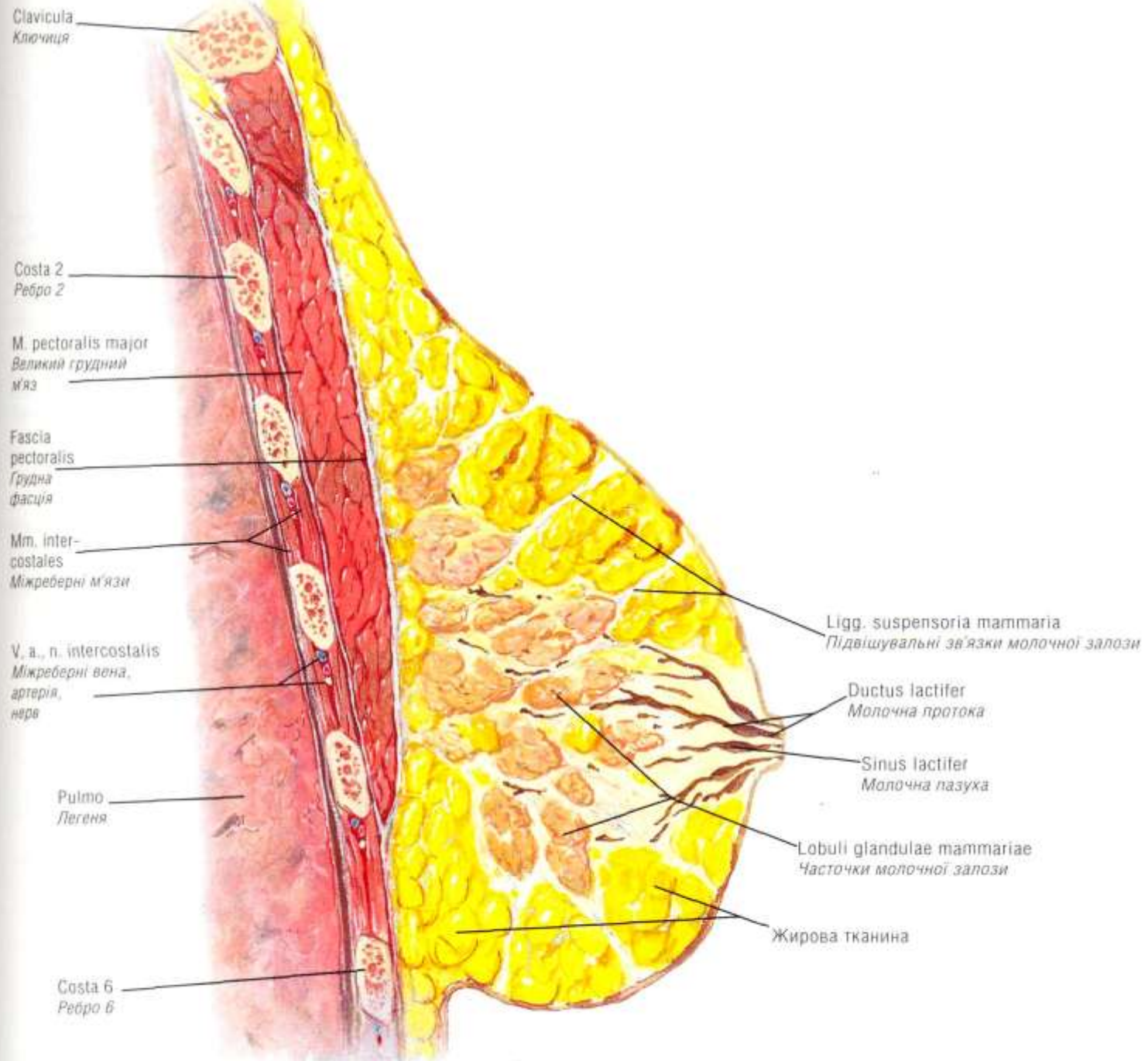


Look for any changes in your nipples.



With your arms raised over your head, look for any changes (puckering,
size/shape, redness, discharge) in your breasts. Then, put your hands on
your hips and look again.



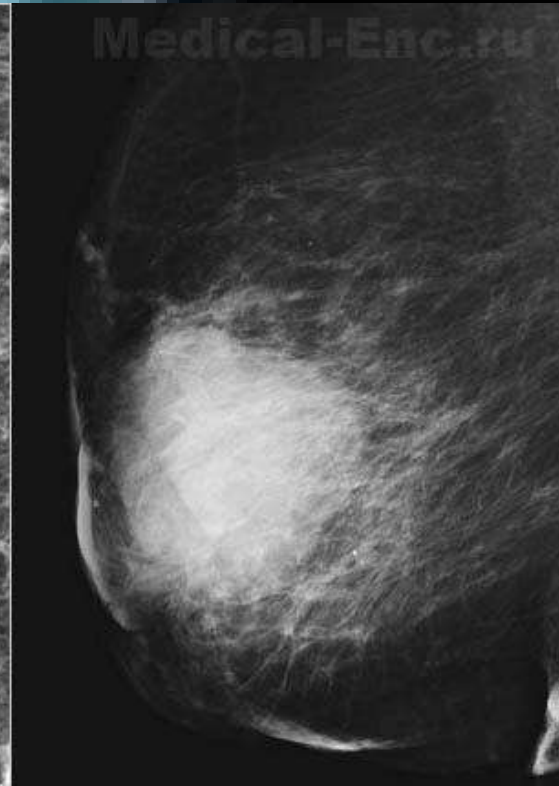
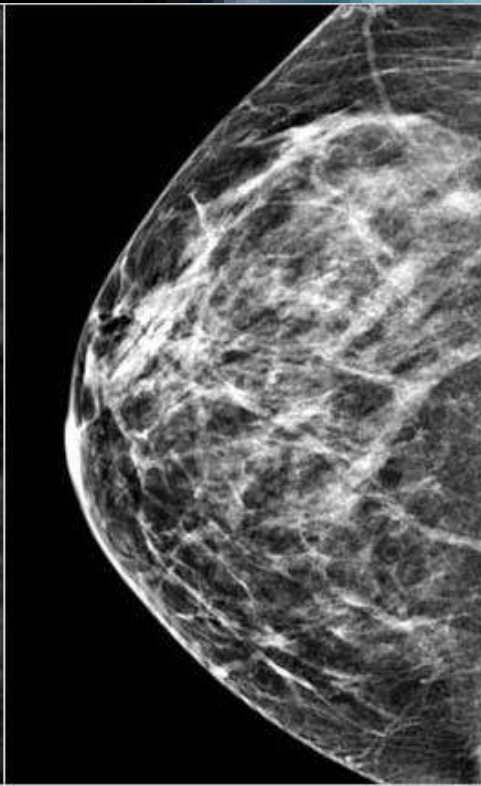
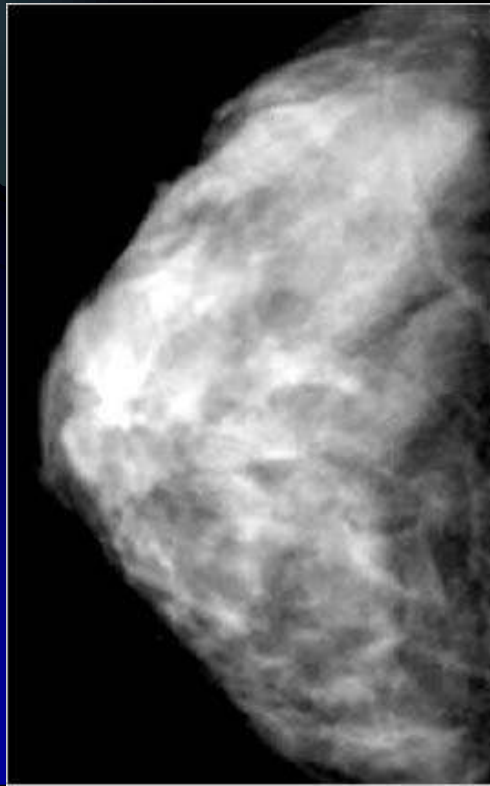


Сарітальний переріз





Breast is composed of identical tissues in men and women, that's why breast cancer sometimes is also occurs in men, but such cases are less than 1% of patients with this disease.



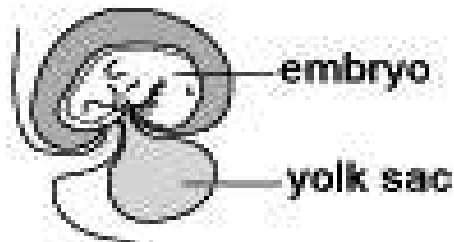
Inside the Womb

endometrium



blastocyst

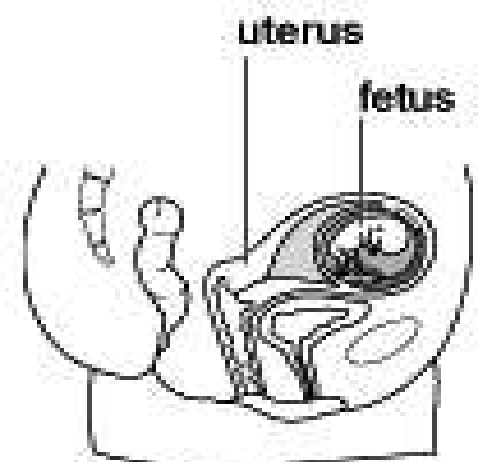
1 week (7 days)



embryo

yolk sac

4 weeks (28 days)
7mm



uterus

fetus

8 weeks (56 days)
40mm

First Trimester

Second Trimester

Third Trimester



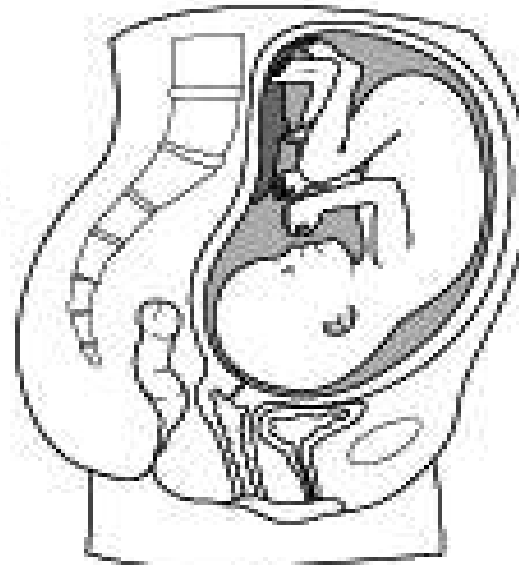
placenta

umbilical
cord

amniotic
fluid

cervix

12 weeks (84 days)
100mm



24 weeks (168 days)
330mm



40 weeks (280 days)
550mm



First Trimester

- Pregnancy is counted in weeks, lasting 40 weeks from the first day of your last period. So you are actually only preparing for pregnancy during those first two weeks, until ovulation. For two more weeks many women do not know that they are pregnant, even though they may be hoping that they conceived this month.
- About the time your next period is due is when pregnancy tests begin to pick up the first traces of hCG in your urine or blood. A positive test can send you through a whirlwind of emotions, both positive and negative, no matter how long you've planned for pregnancy or if it's a pleasant surprise.
- The picture to the right is 5 days after conception.



Second Trimester

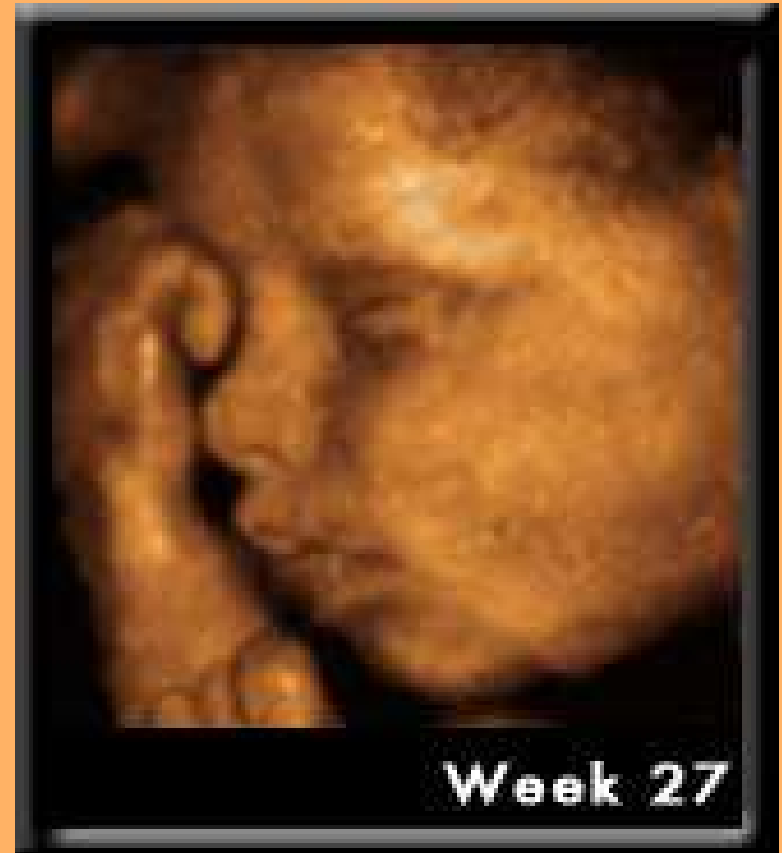


- The second or middle trimester is the time of your life! Not only have most women ceased being nauseated, many feel a burst of energy and report feeling the best that they've ever felt. Because of the changes in the first trimester disappearing sexuality also peaks at this time as well for the majority of couples. Not having to be concerned with birth control or falling asleep as soon as your head hits the pillow opens a whole new realm for the couple.
- The baby is finishing it's development and at the end of this trimester she or he will begin to put more weight on. Major organ systems are functioning and fetal movement can be felt by mom and outside parties by the end of the second trimester. Some women will have ultrasound screening around 20 weeks gestation. About 50% of families will choose to find out the sex of their baby at this point as well.



Third Trimester

- Baby is getting bigger and loving life in the womb. Many babies will start to settle into a head down position, beginning as early as the 28th week.
- About 3-4% of all babies will remain in the breech position at the end of pregnancy. This final trimester is really a time for finishing touches like lung maturity and layers of brown fat to help keep your baby warm on the outside.





Thank you!